

LOW COST PHYSIOTHERAPY AIDS

GILL TREMLETT



BY DON CASTON

ILLUSTRATED BY JOAN THOMPSON

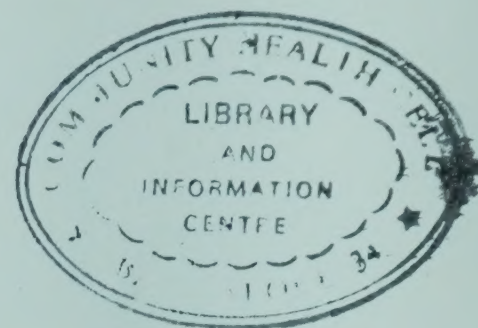
Appropriate Health Resources and
Technologies Action Group Ltd.

LOW COST PHYSIOTHERAPY AIDS

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C.P.H.E.
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Illustrated by	Joan Thompson
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For AHRTAG

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We would like to acknowledge the help of Miss Meenakshi Zaveri, Miss Chhanda Das and Mr Gautam Chaudhury.

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INTRODUCTION

This book shows how to make simple aids for exercising different parts of the body. The aids can be used in hospital or at home. A person must continue with the exercises after he has left hospital.

It is important that whoever chooses the aid understands the right treatment for each medical condition. The maker must work closely with a medical adviser so that they can adapt exercises to suit each person.

USING THE AIDS

- Make each aid the correct size for the user. If the aid is too large or too small the exercise will not help. You can see the correct measurement for each aid by looking at the pictures.
- Make sure the person will not fall over and injure himself when he does the exercises.
- The aid must not rub or press on the skin. You must be very careful with people who have no feeling in their skin, as with leprosy.
- Make sure the aid is comfortable to use.
- Smooth all rough surfaces and remove all corners and sharp edges.
- Make sure that ropes and ties do not cut into the skin.

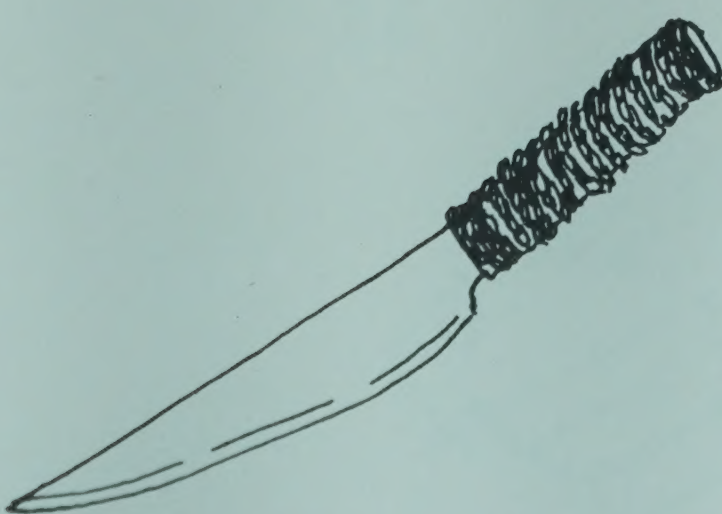
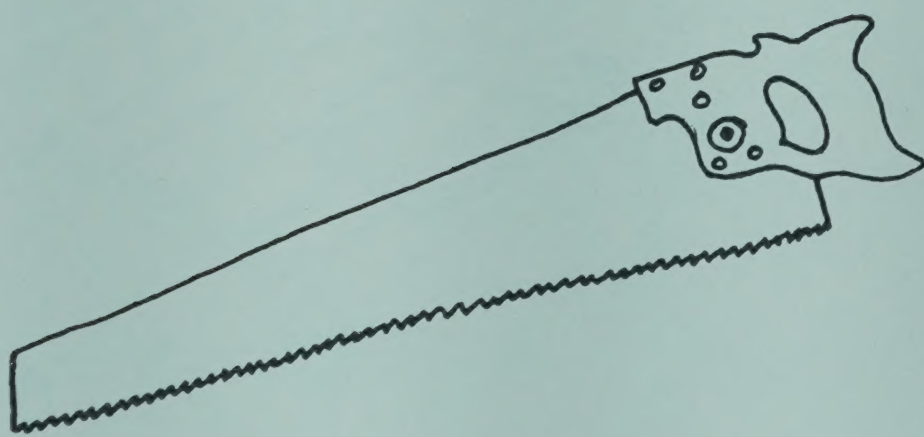
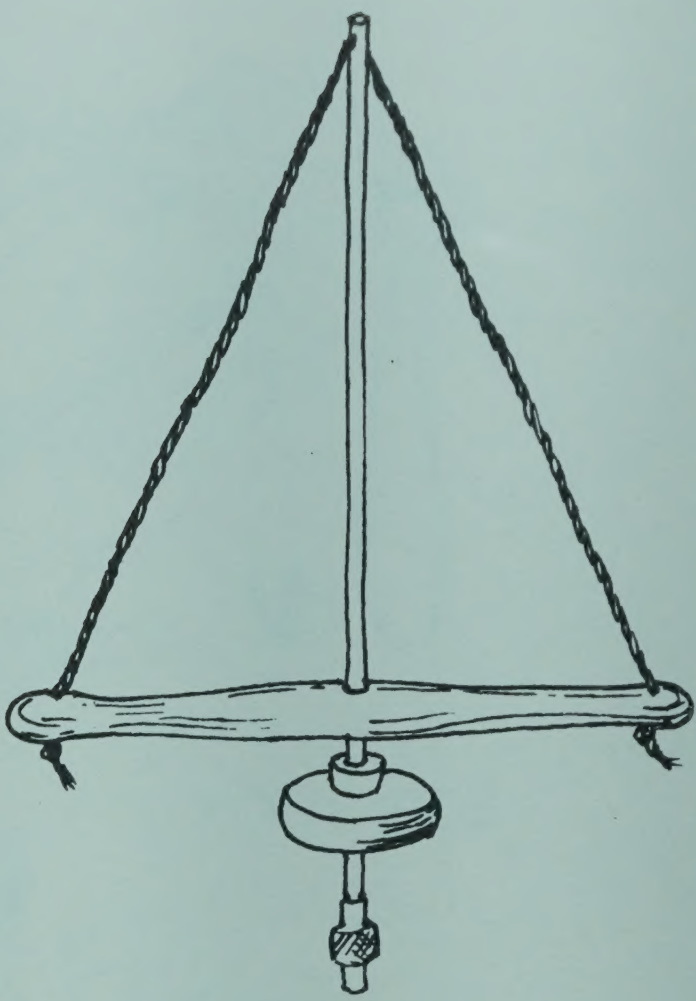
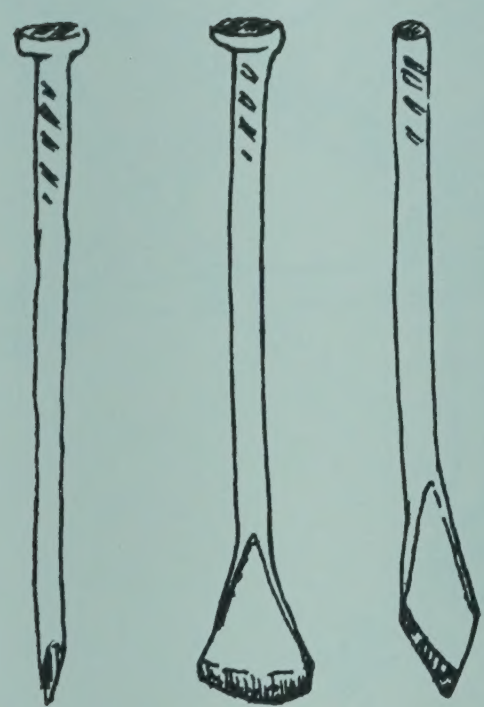
HINTS ON MAKING THE AIDS

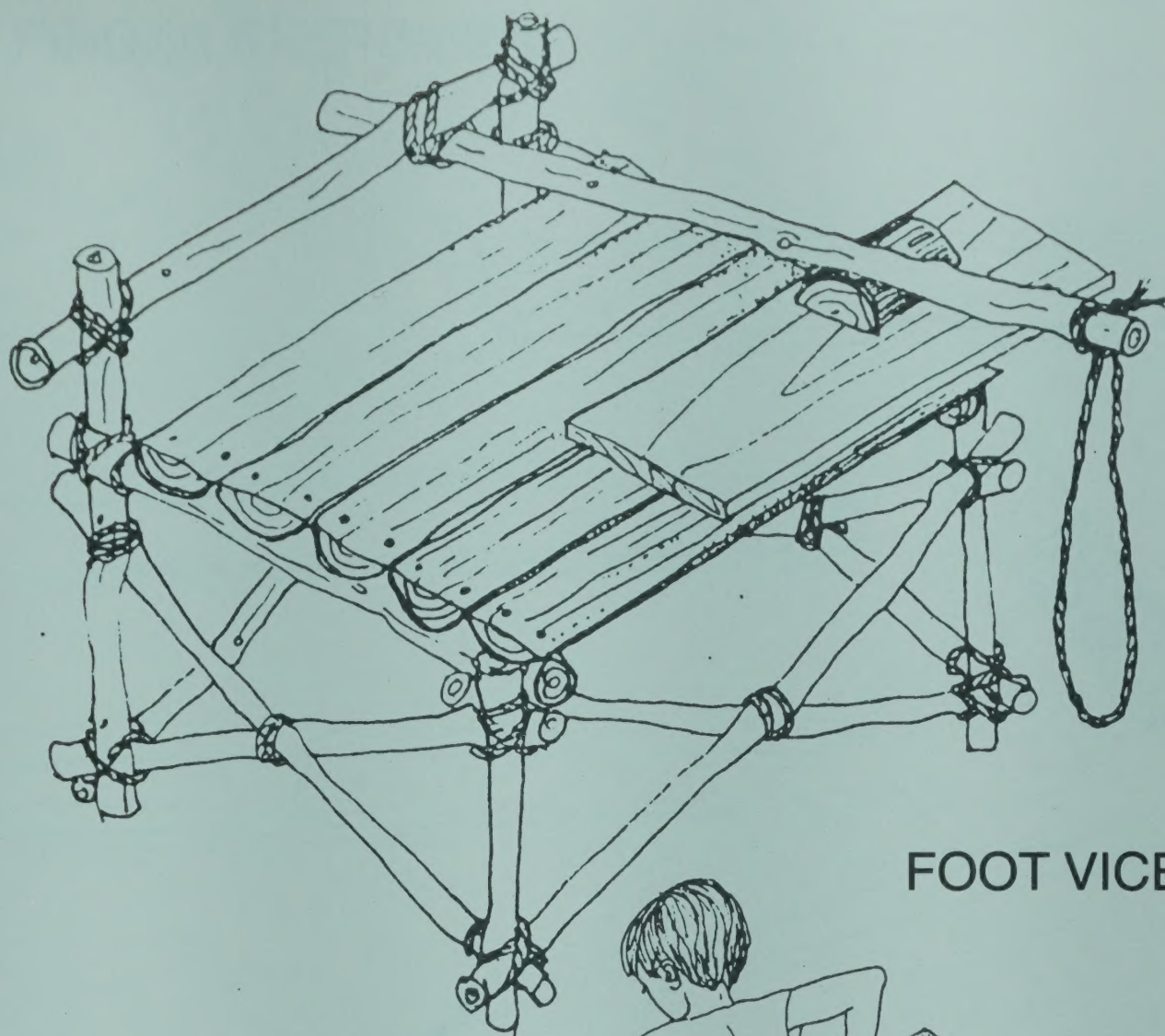
- You can make all the aids in the book using local materials and skills. All you need is wood or bamboo, with nails, string and cloth.
- Handicapped people can make these aids. You can make foot and hand vices to help them hold the wood in place while they work (see page two).
- You can make a weight by filling a piece of cloth with sand, clay or stones. This is shown on page 17.
- You can adjust hand or finger exercises to suit the strength of the person who will use them. The thicker the wood, the more strength the person will need to do the exercise. You can make the wood easy to bend by thinning it.
- When you make the exercisers which need a material that will stretch, you can use pieces of old rubber inner tube cut from a car or bicycle tyre.

TOOLS

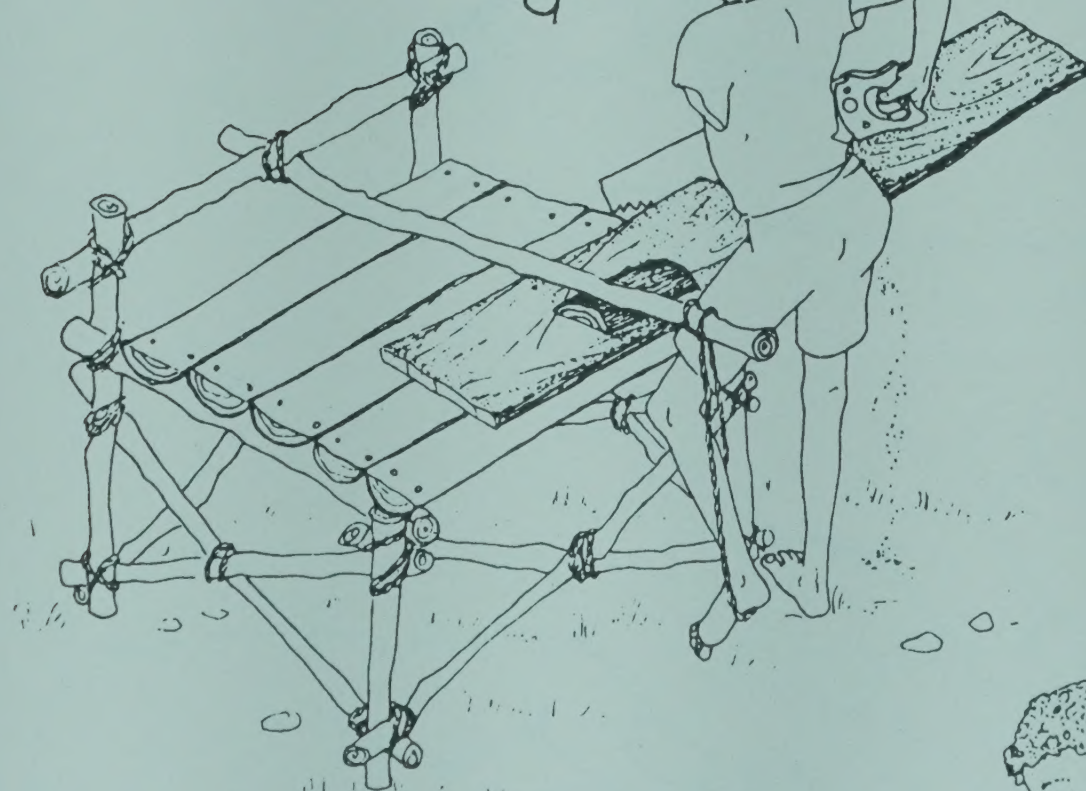
- You can make all the aids with a saw, chisel, hammer and a drill.
- You can make your own wooden hammer and bow drill. You can make chisel and drill bits with nails.

TOOLS USED TO MAKE AIDS

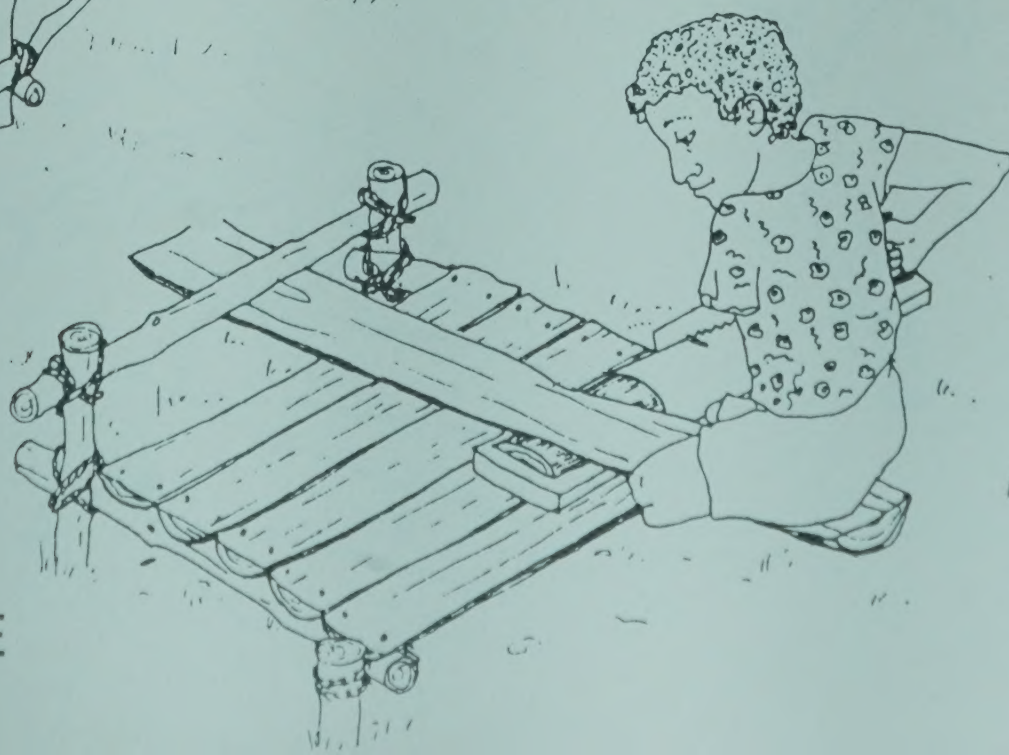




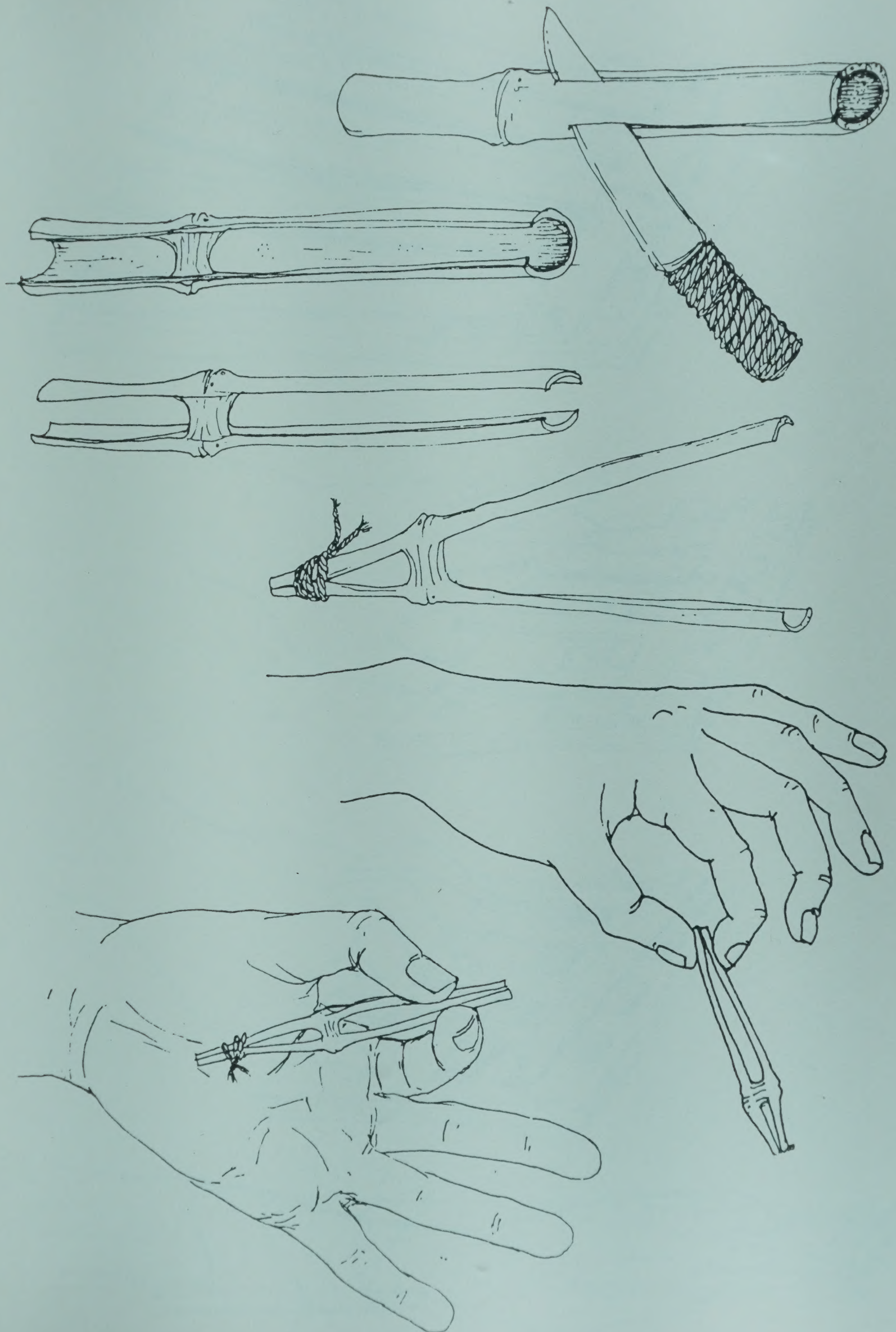
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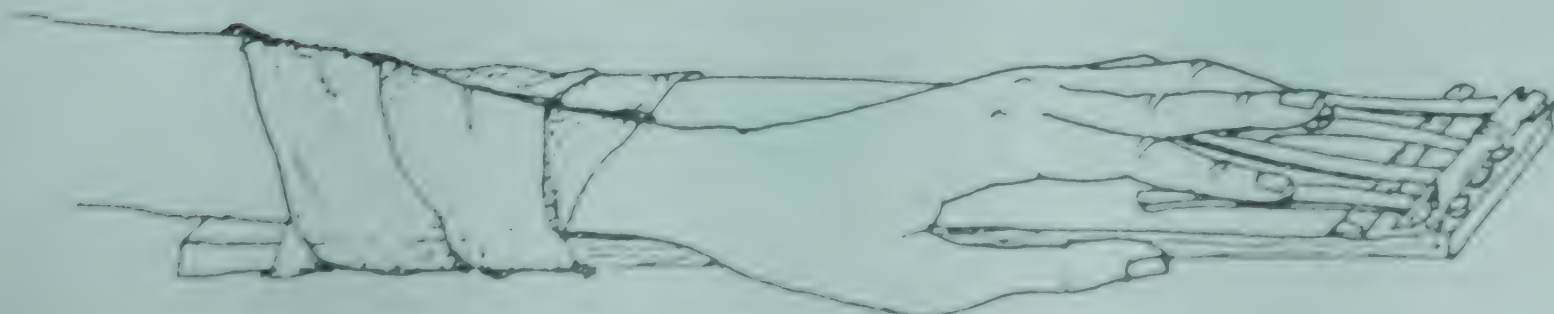
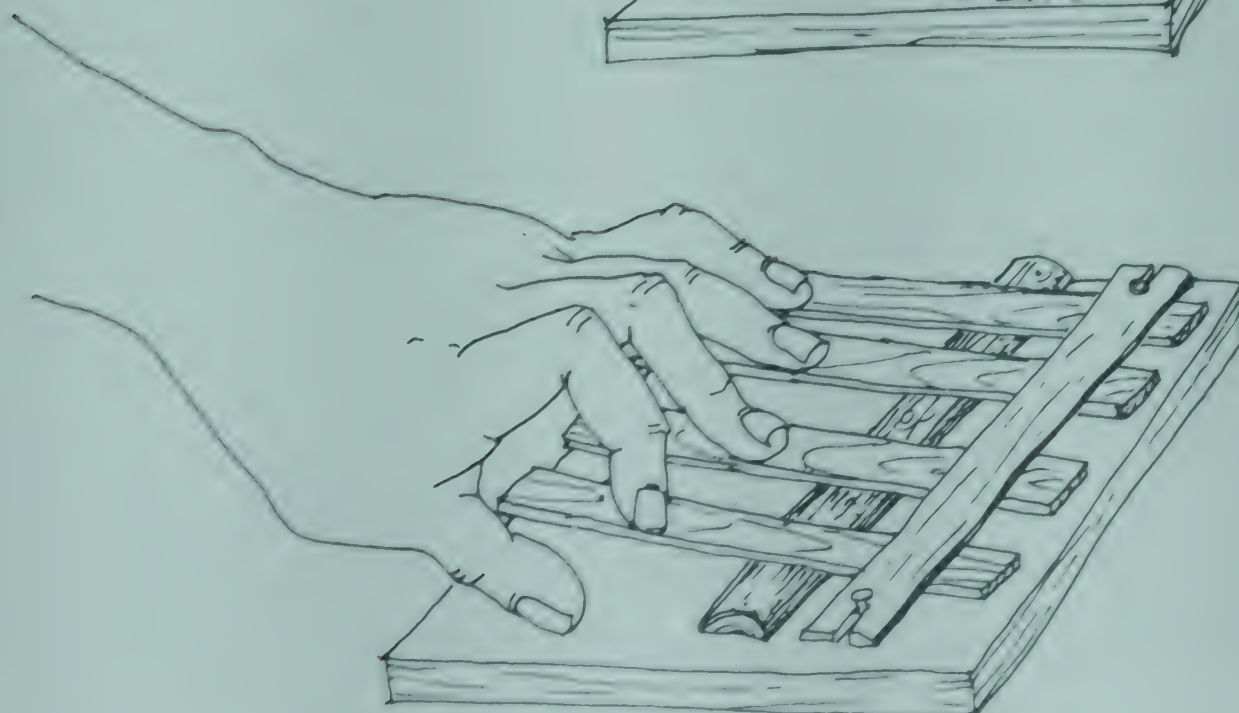
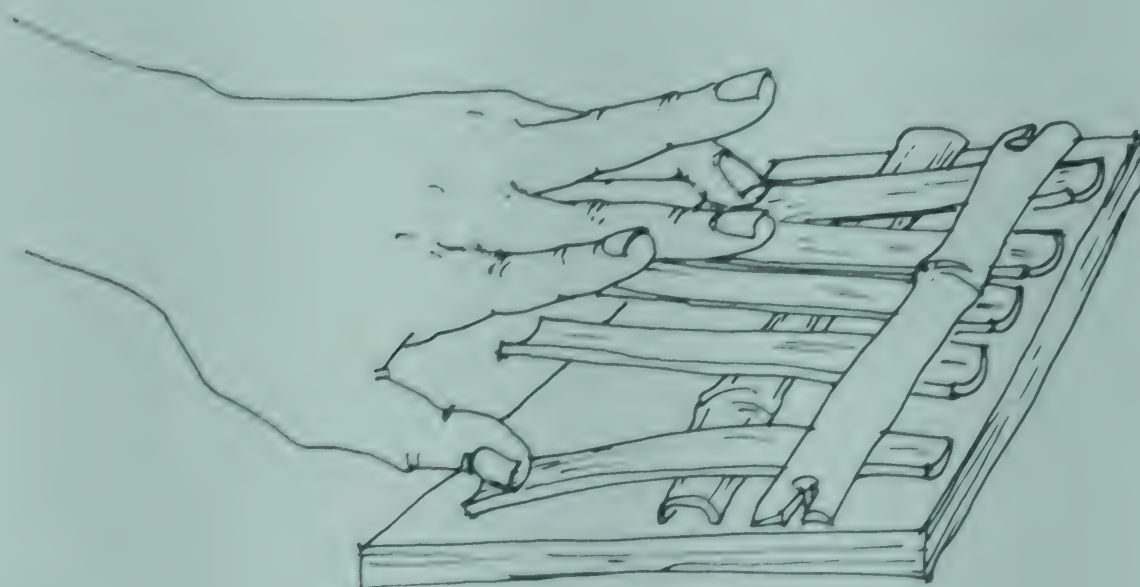
SITTING VICE



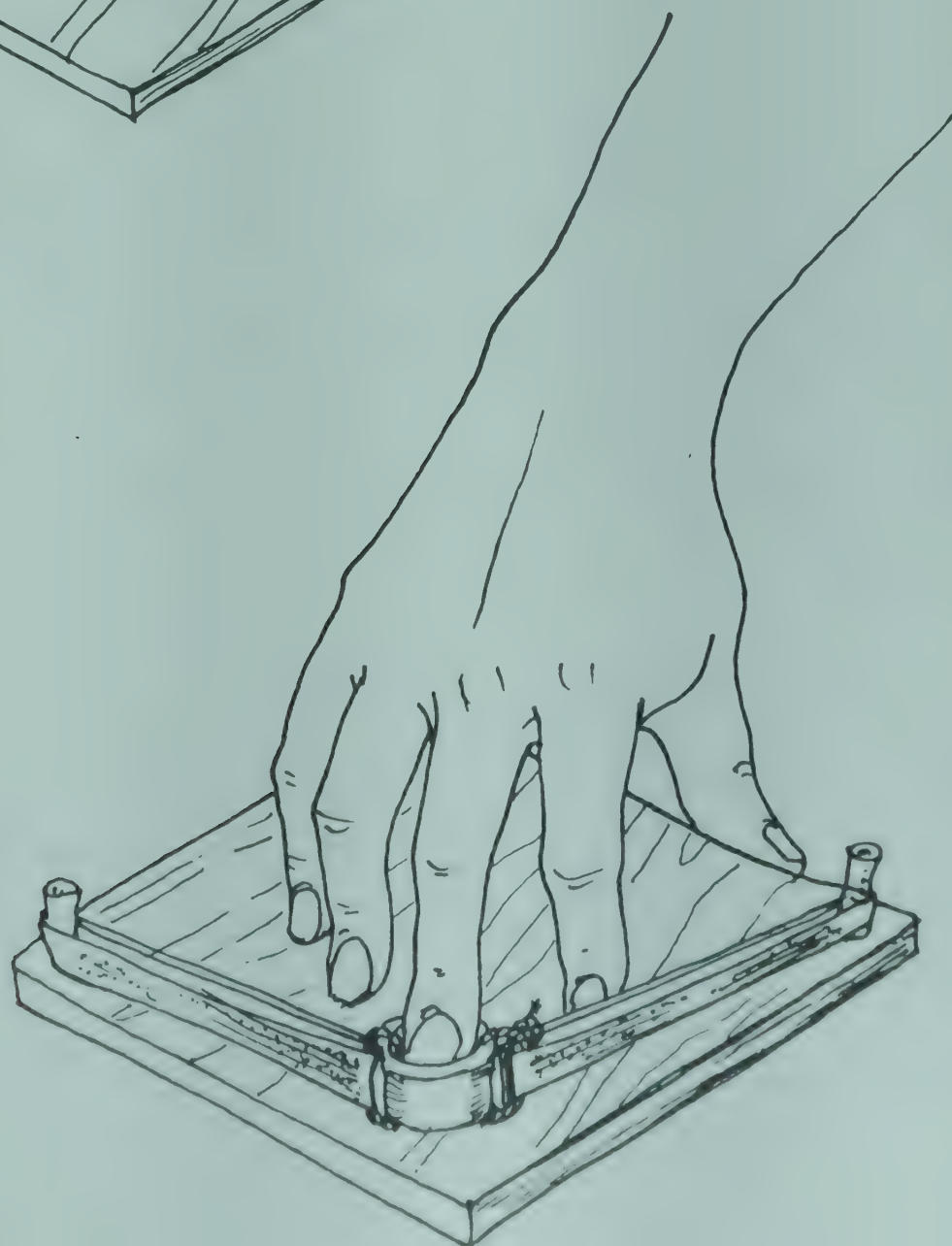
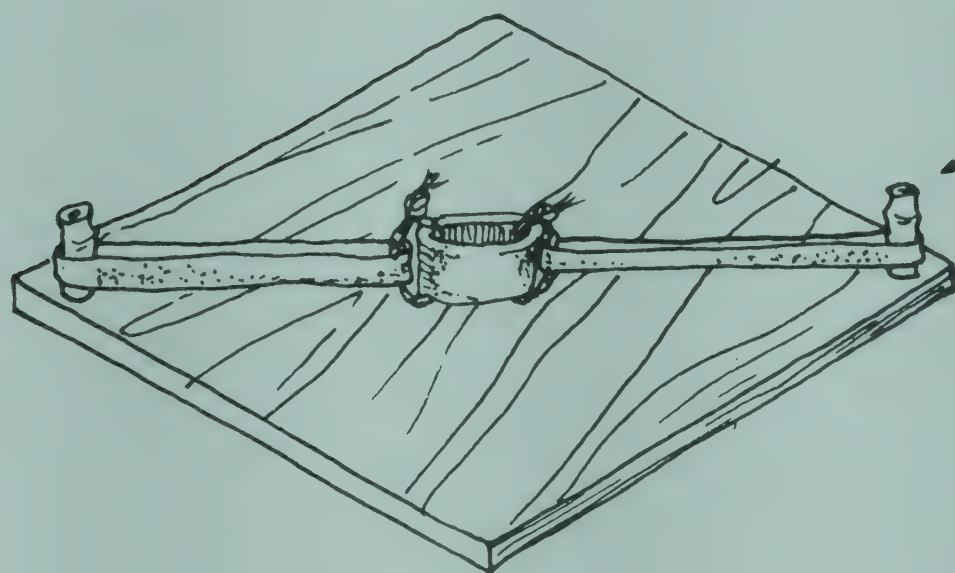
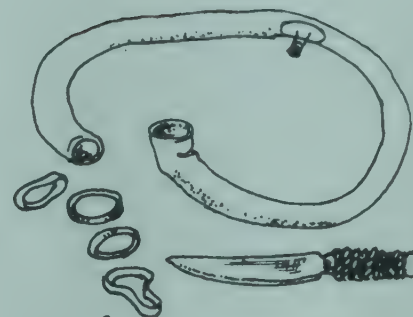
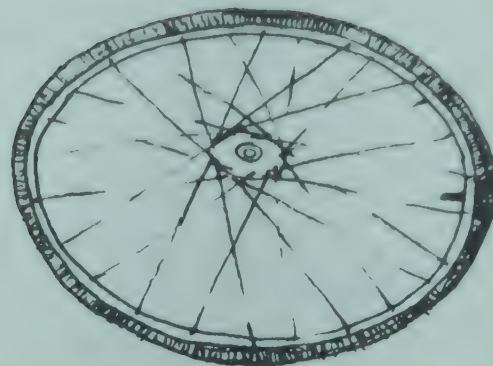
FINGER EXERCISER



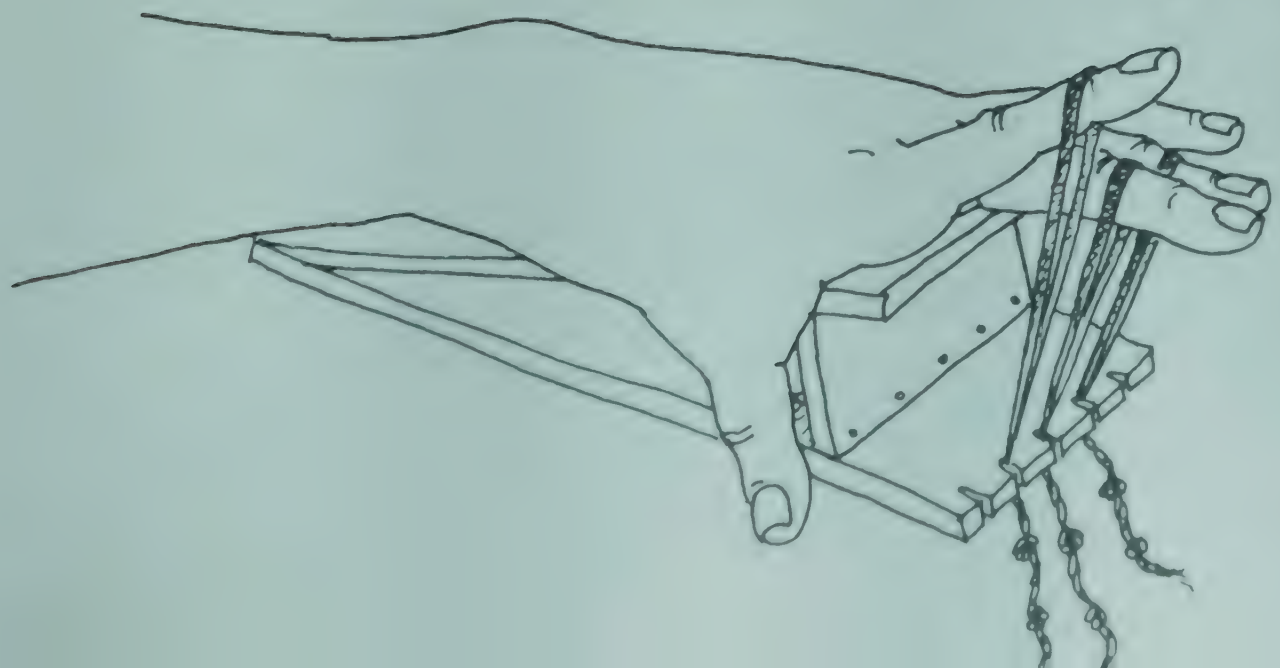
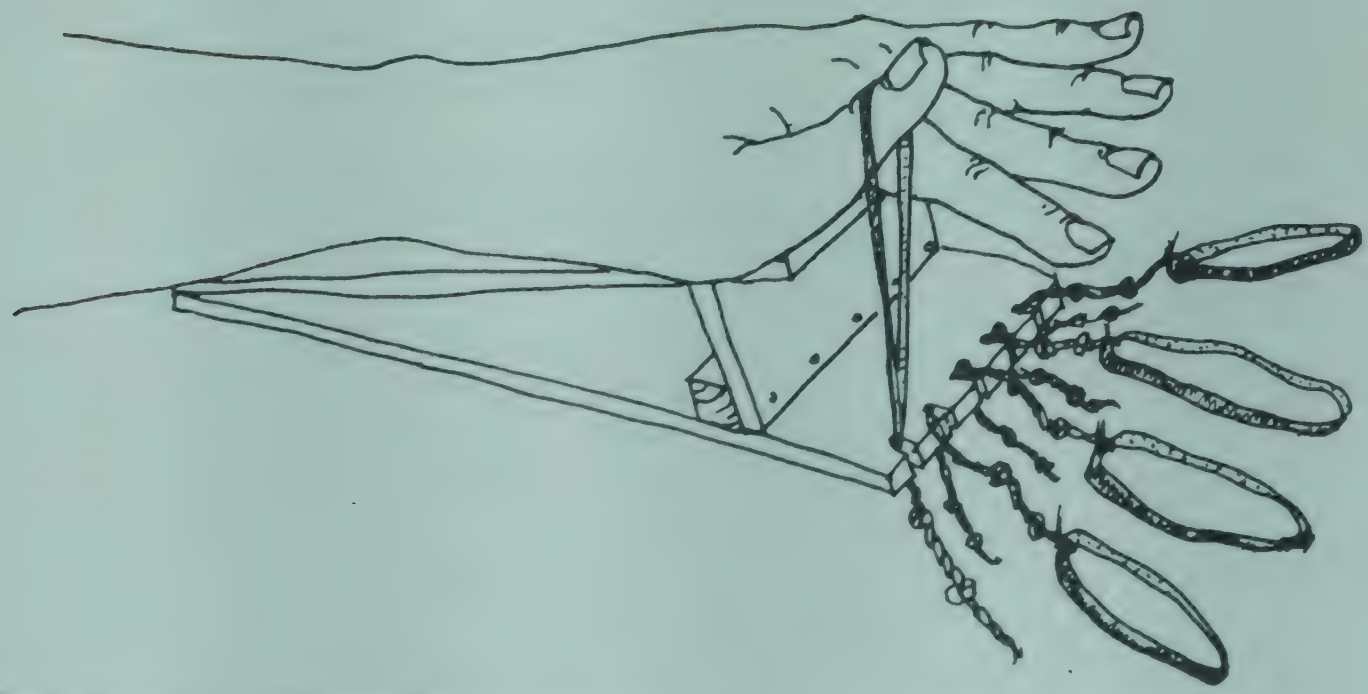
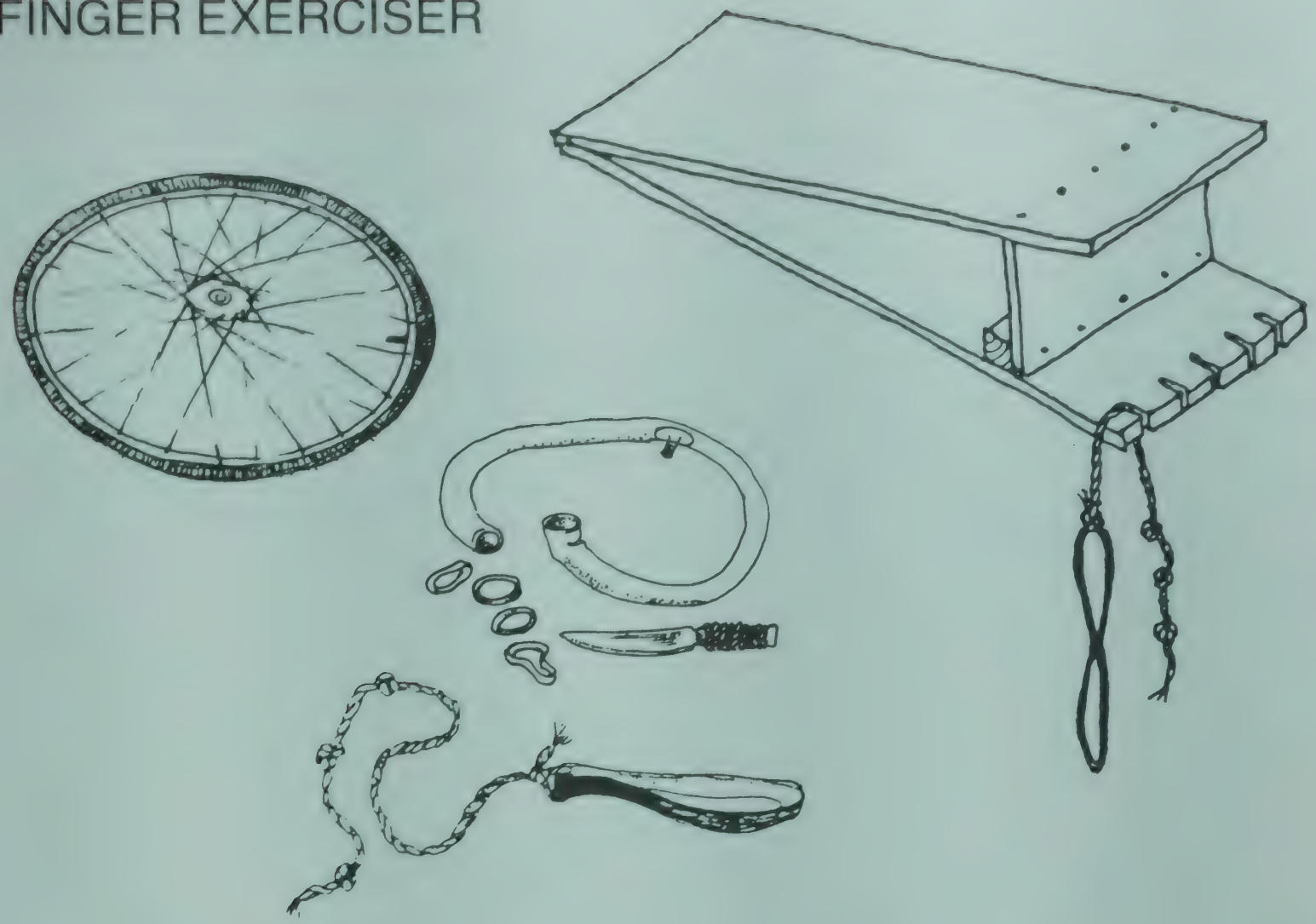
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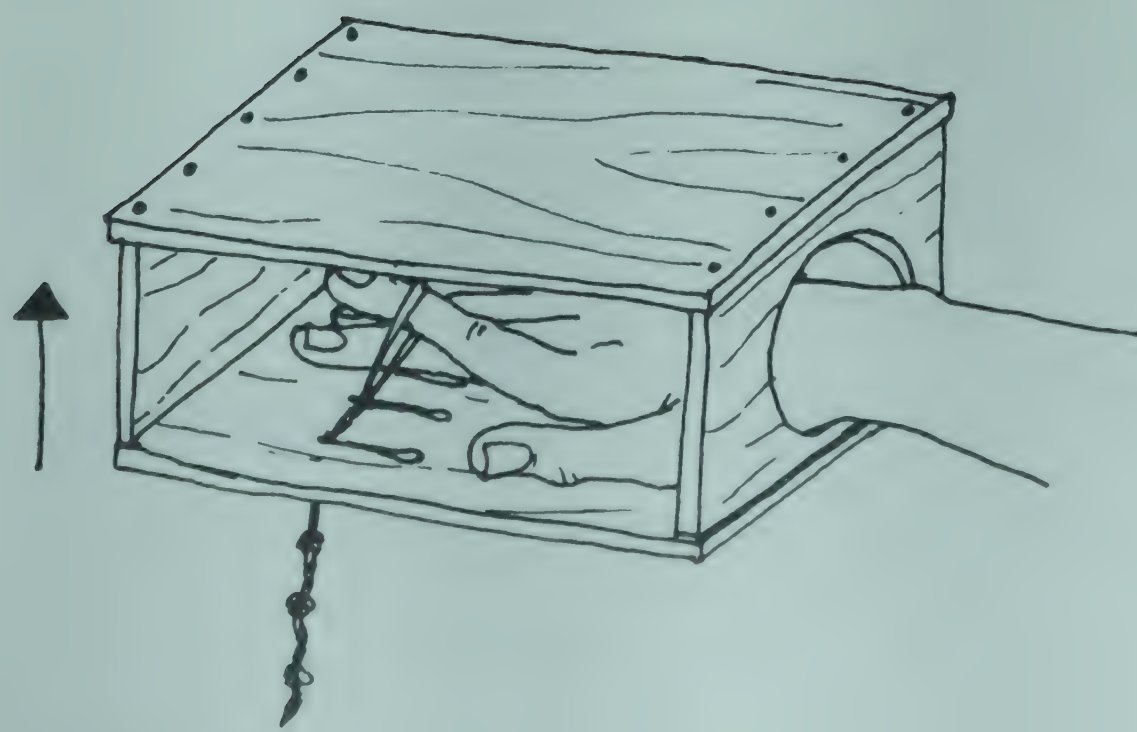
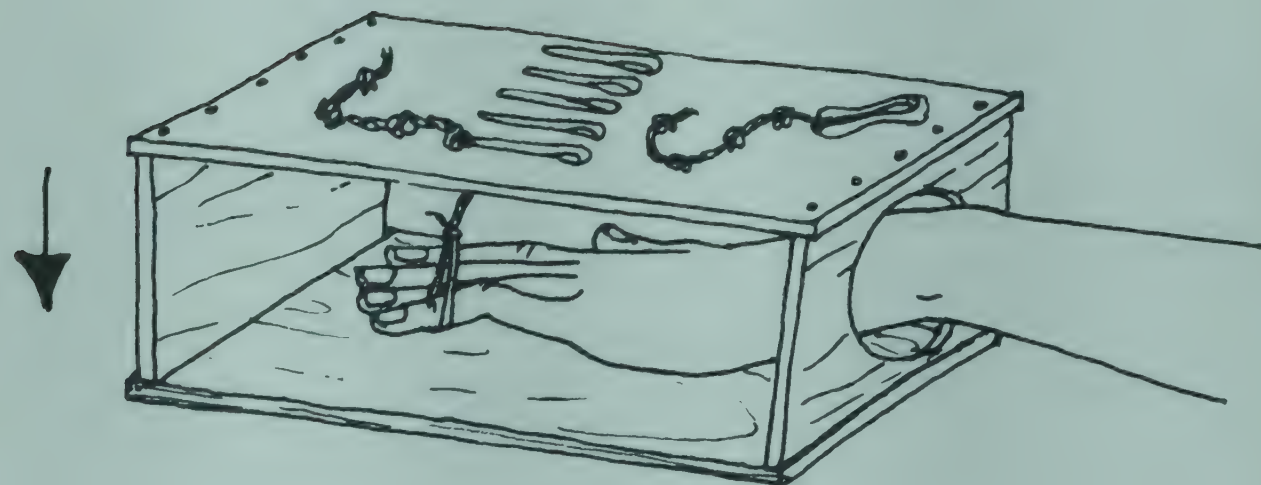
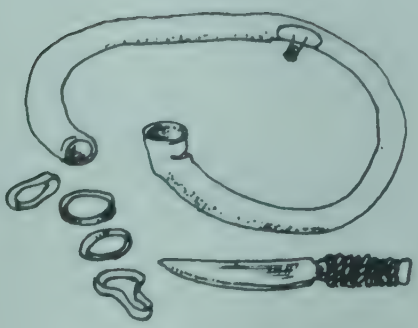
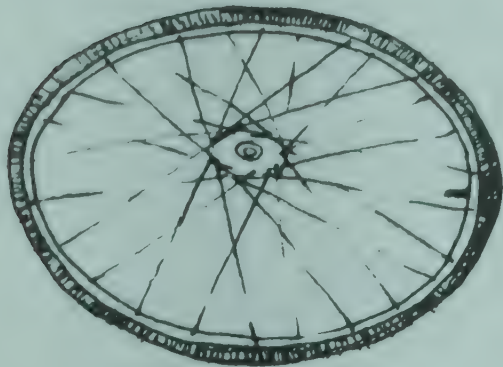
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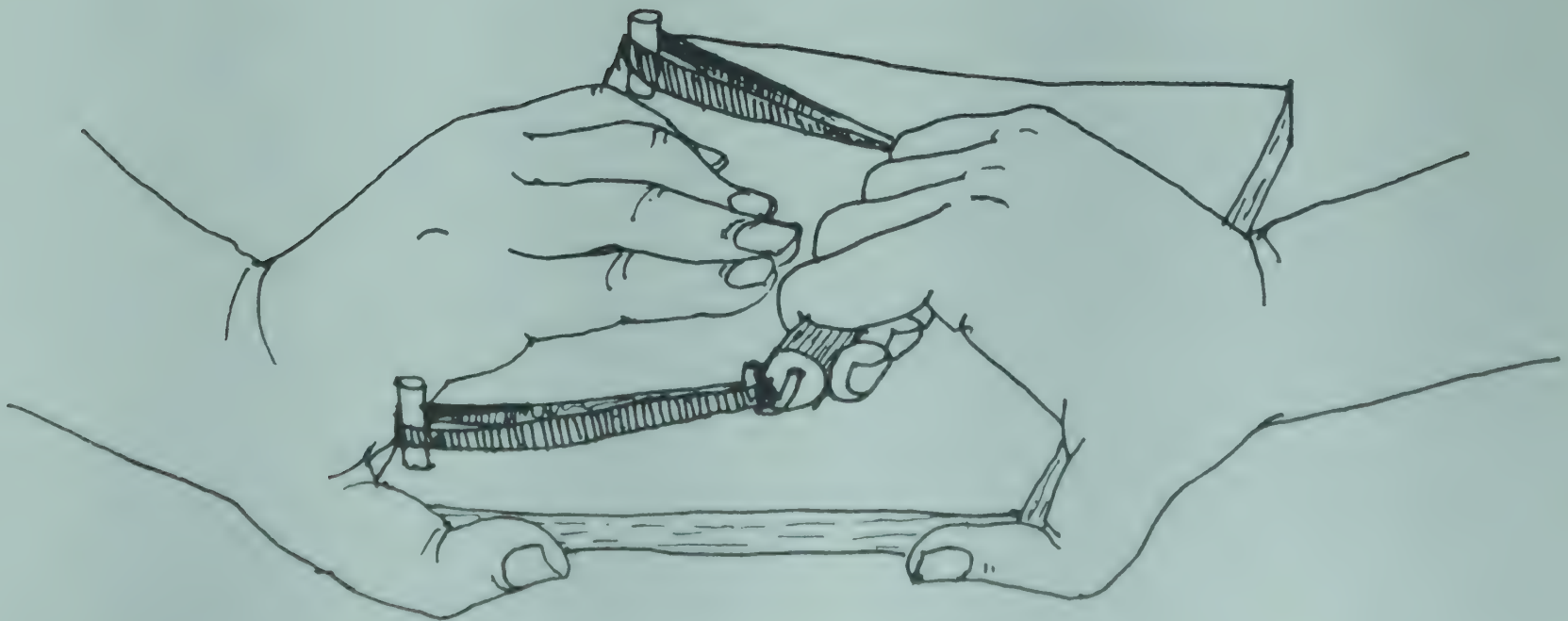
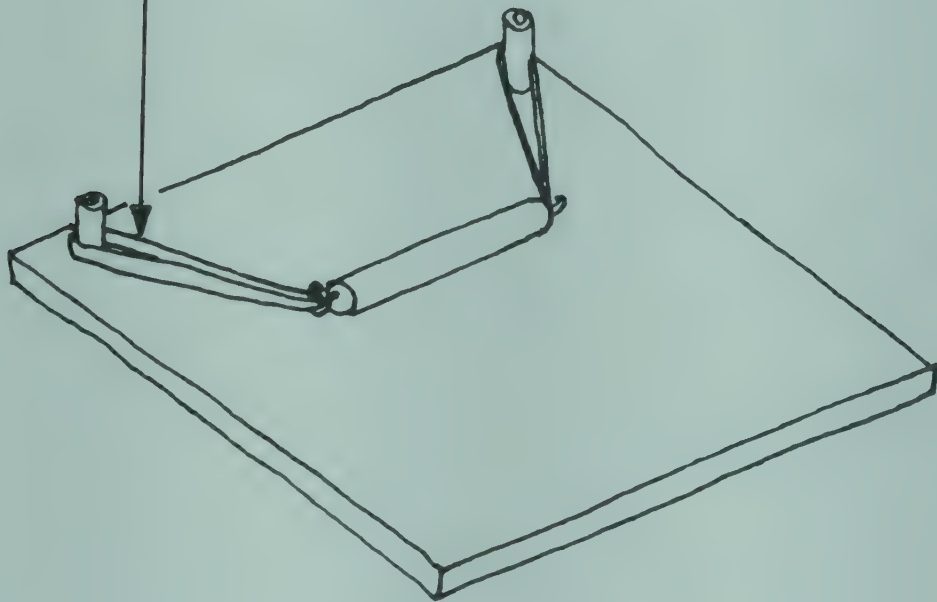
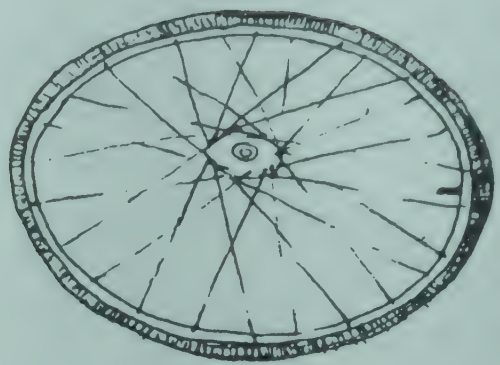
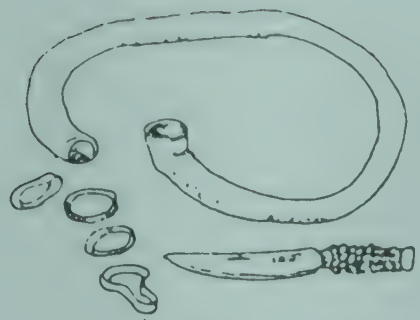
FINGER EXERCISER



FINGER EXERCISER



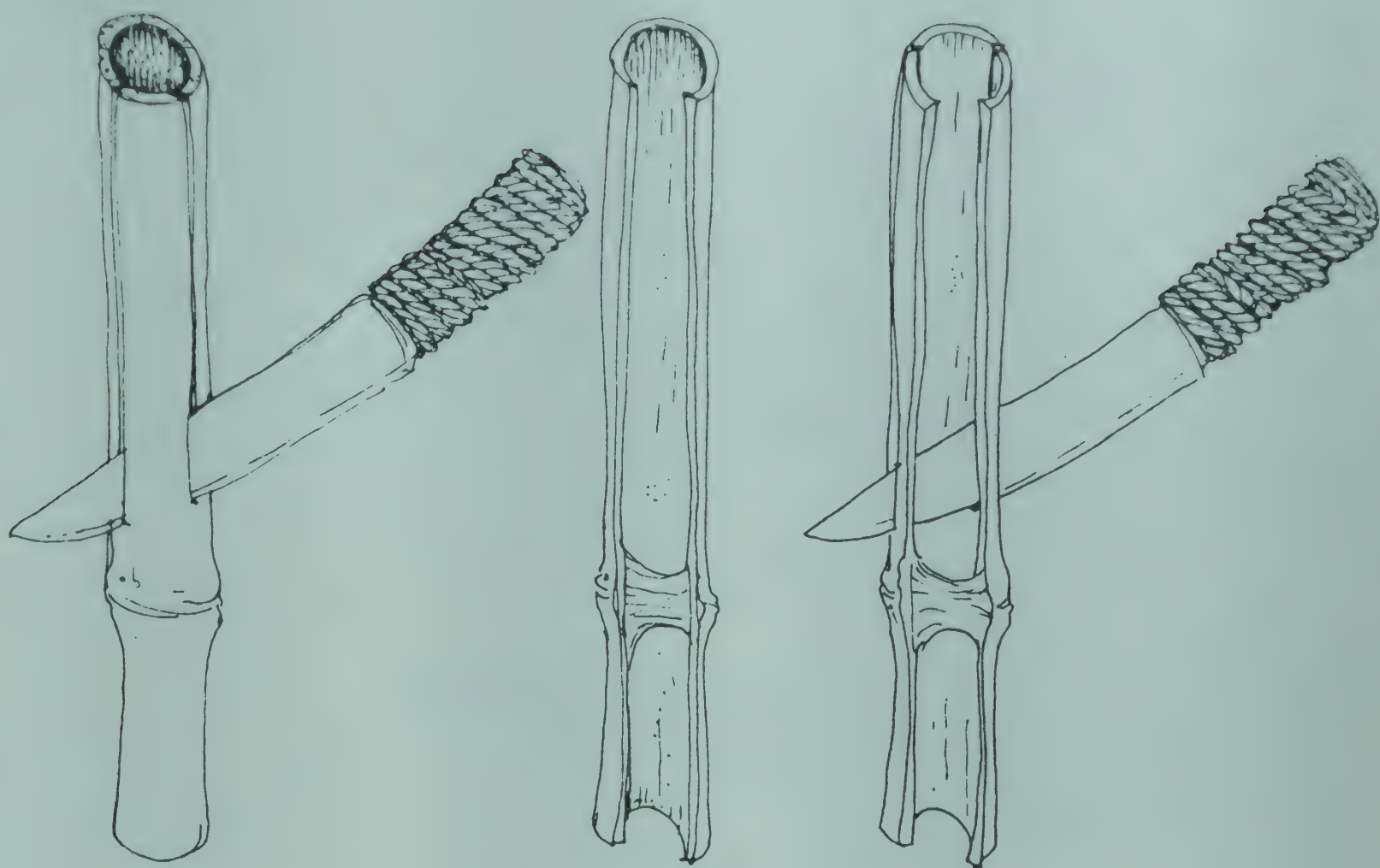
HAND AND FINGER EXERCISER



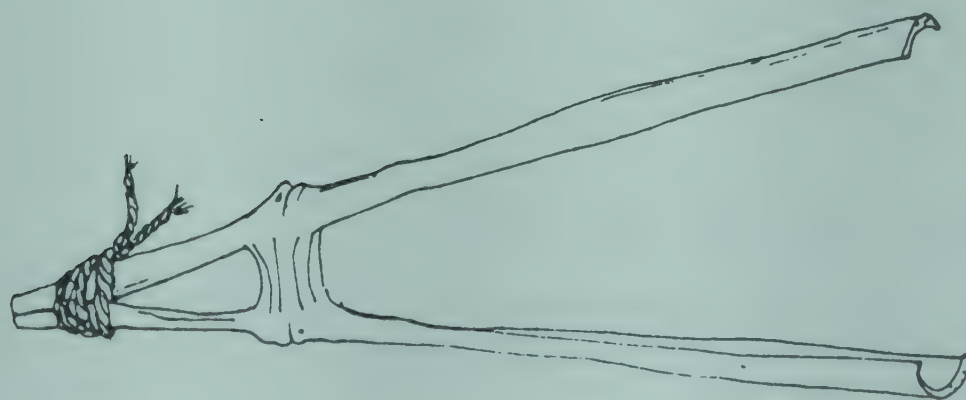
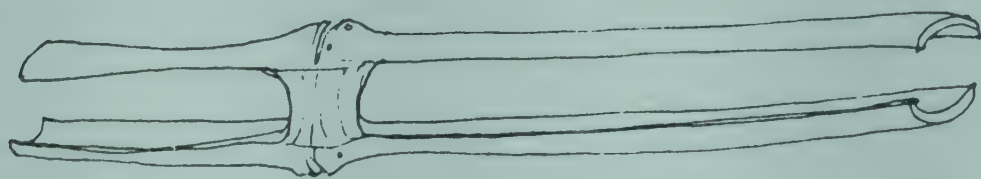
CLAY HAND EXERCISER

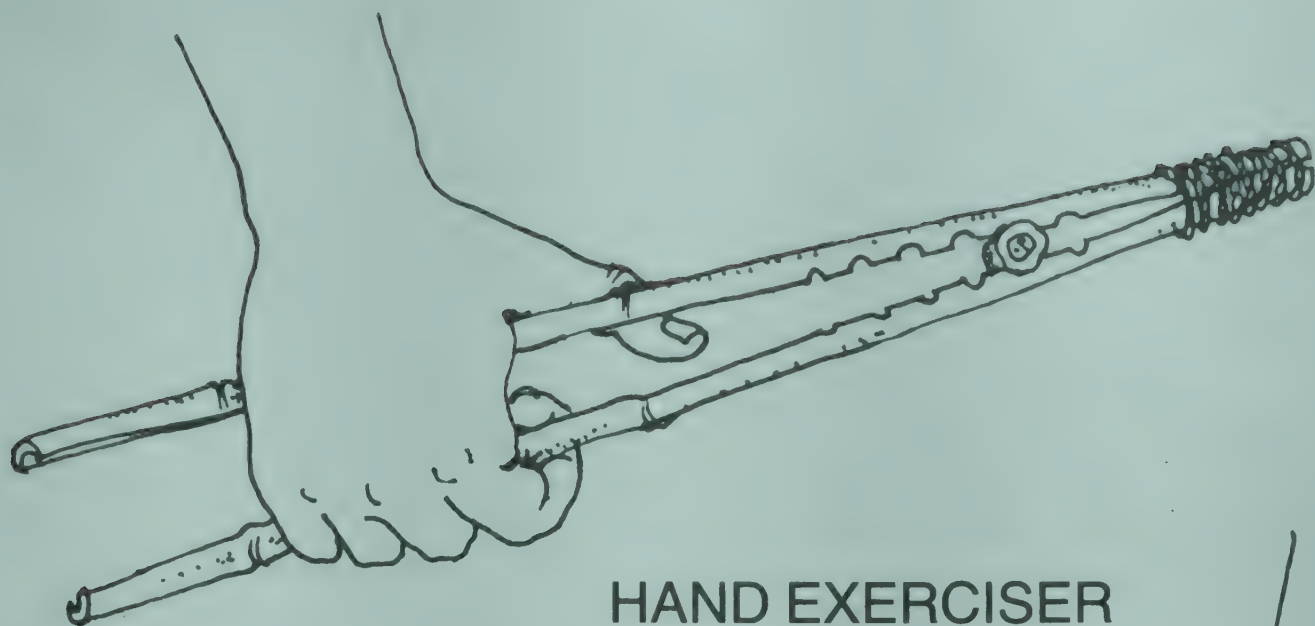




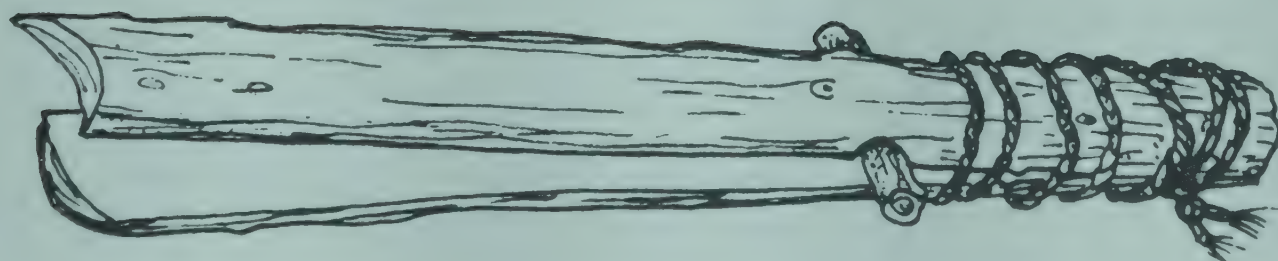
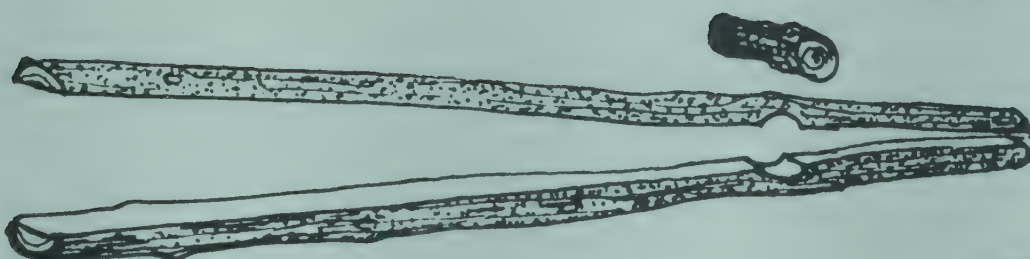
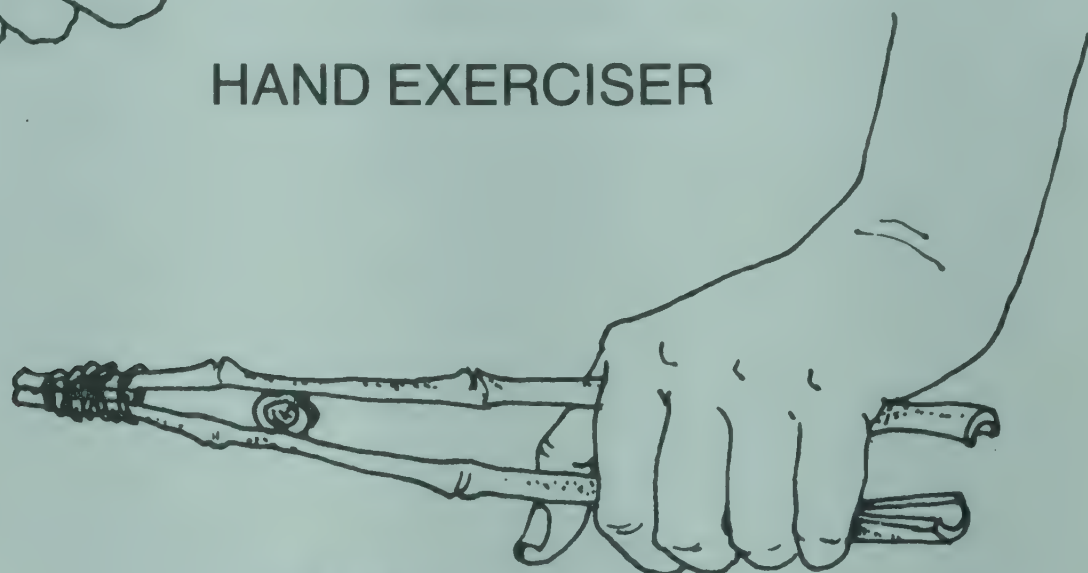


HAND EXERCISER

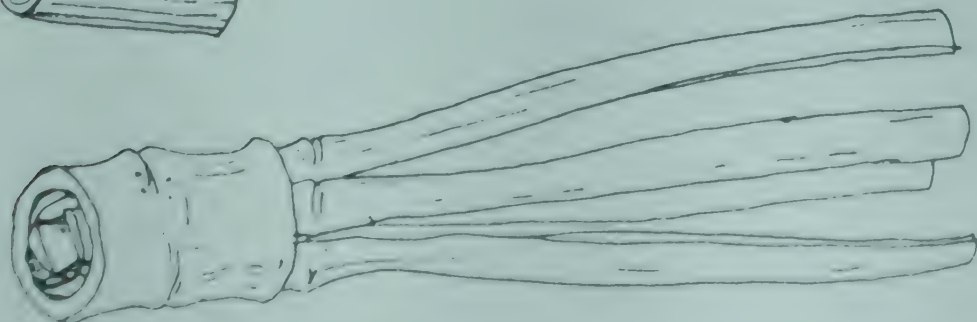
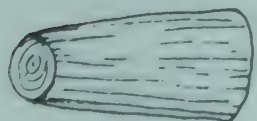
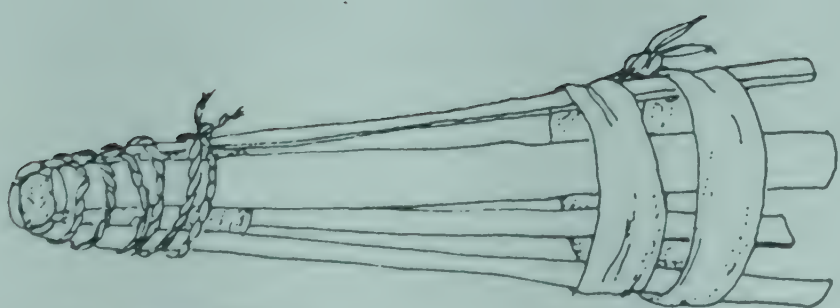
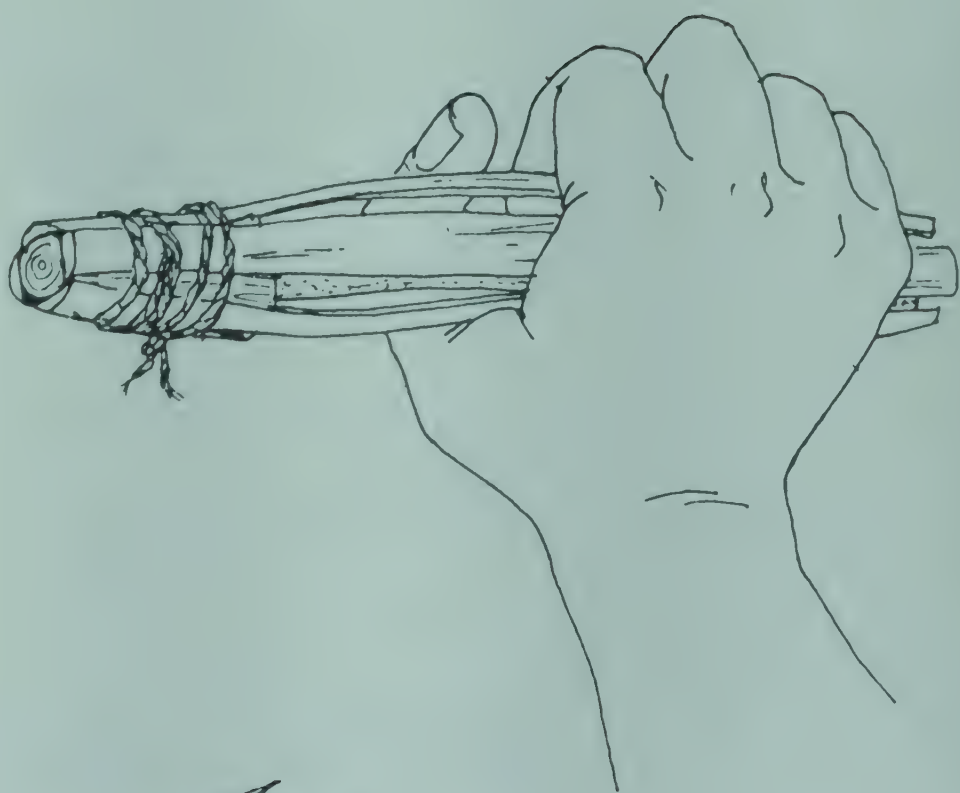
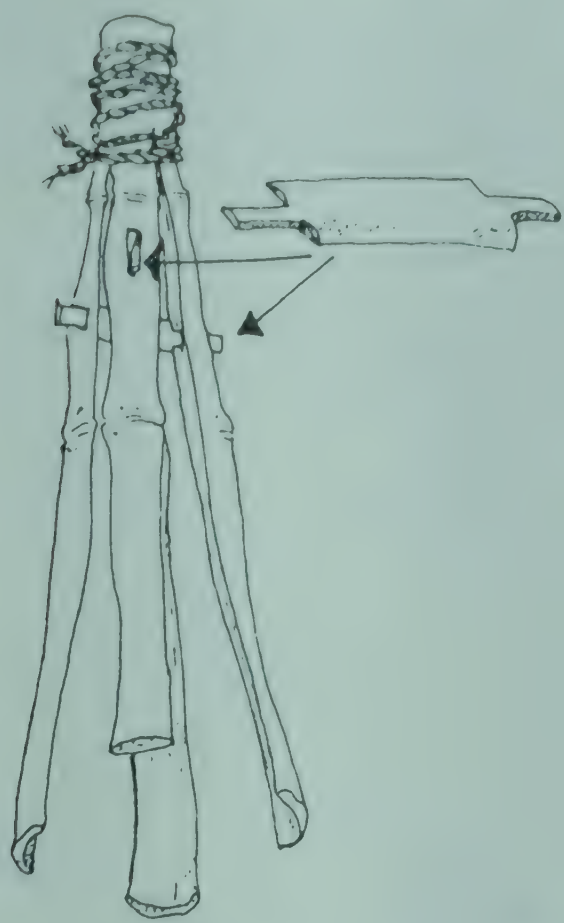




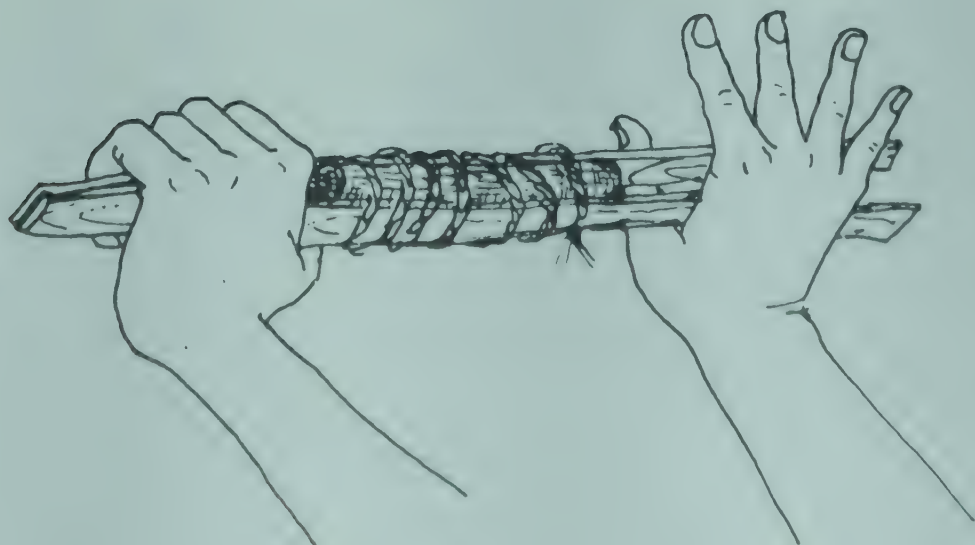
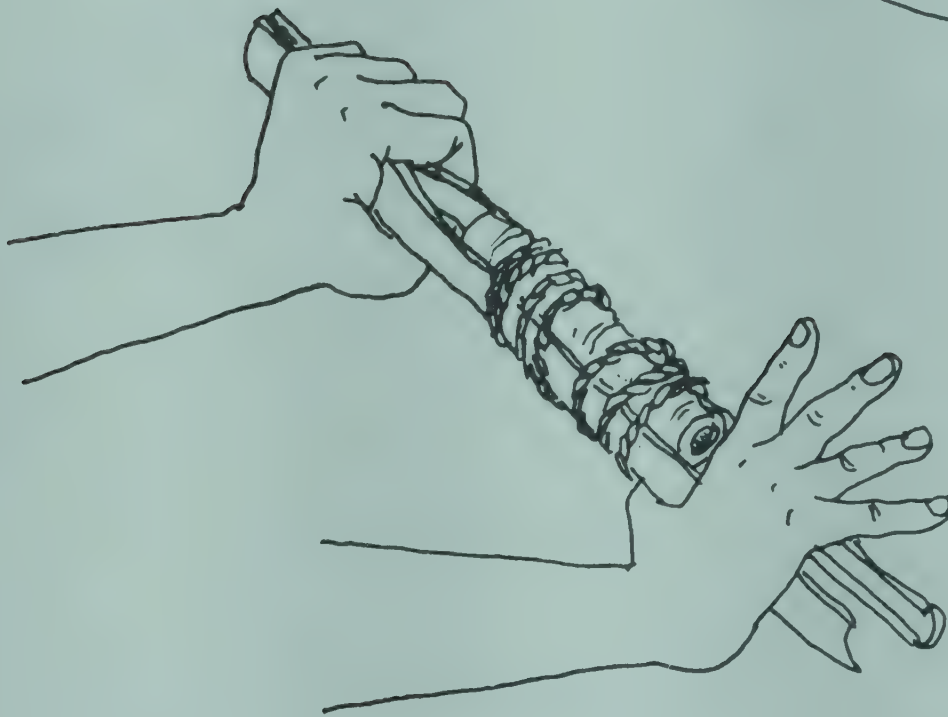
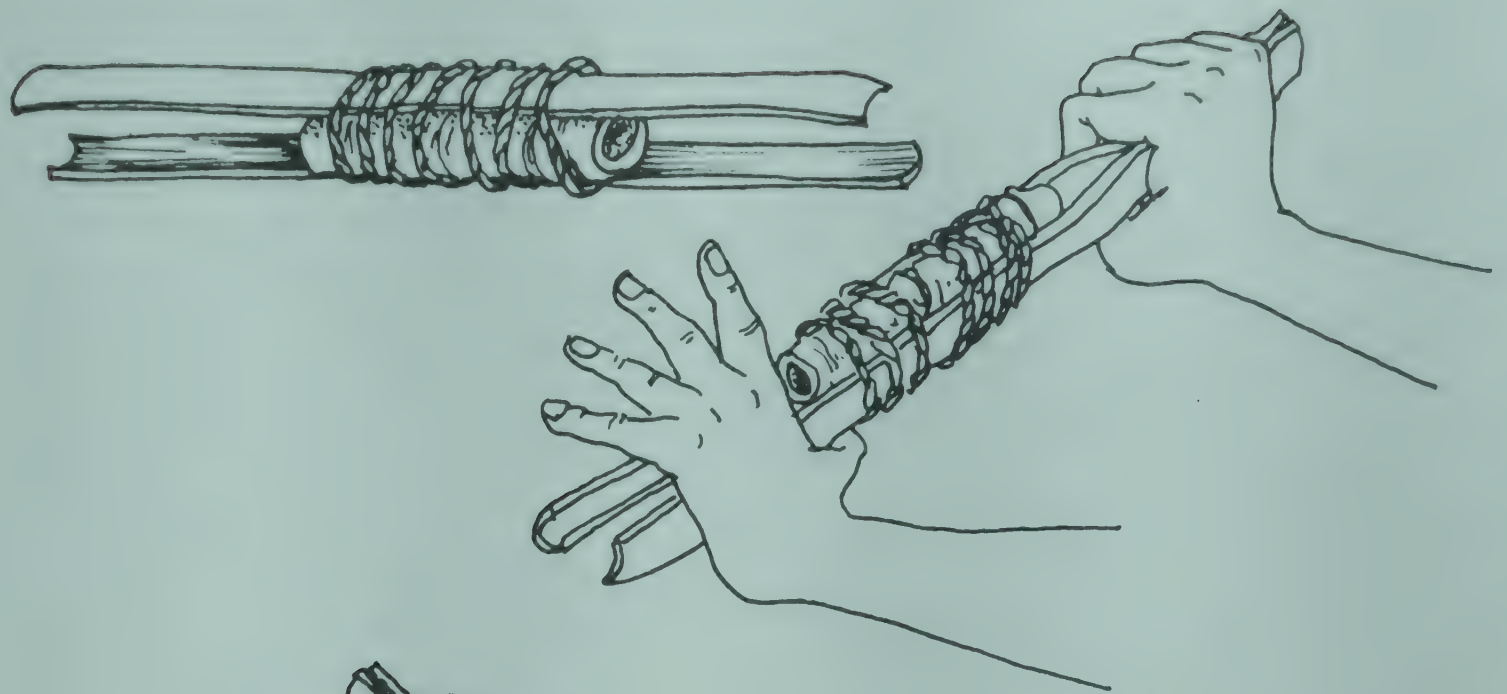
HAND EXERCISER



HAND EXERCISER



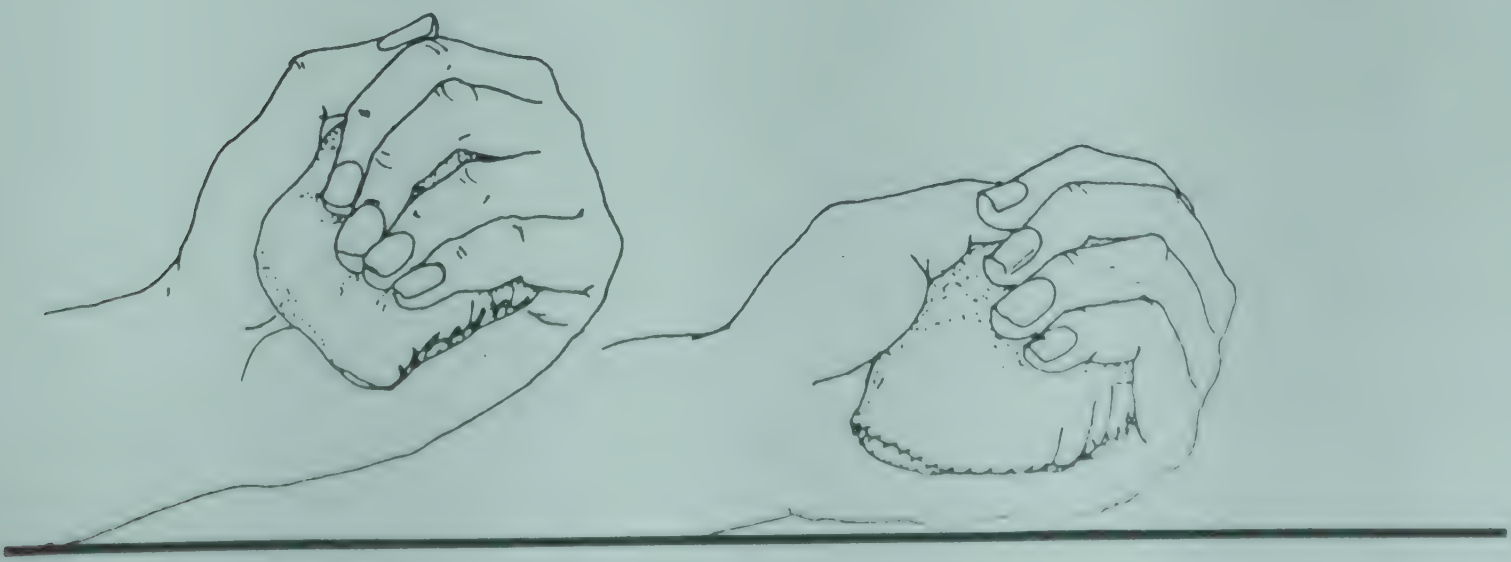
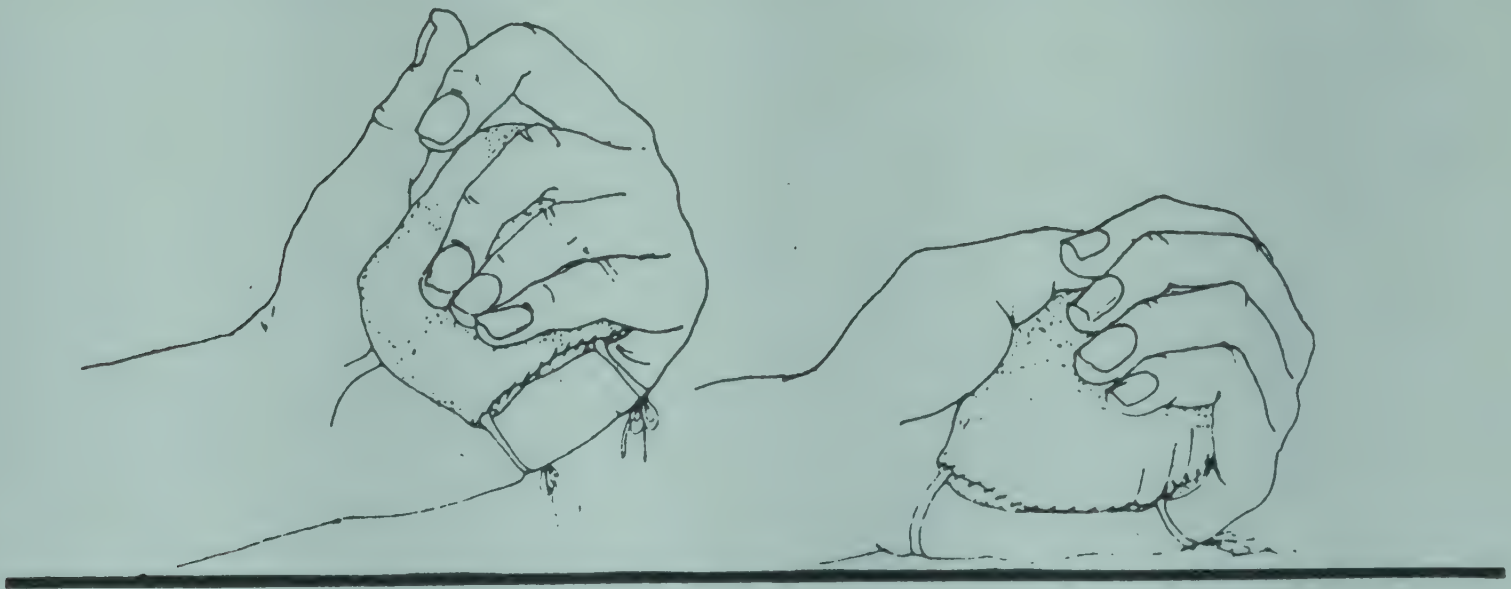
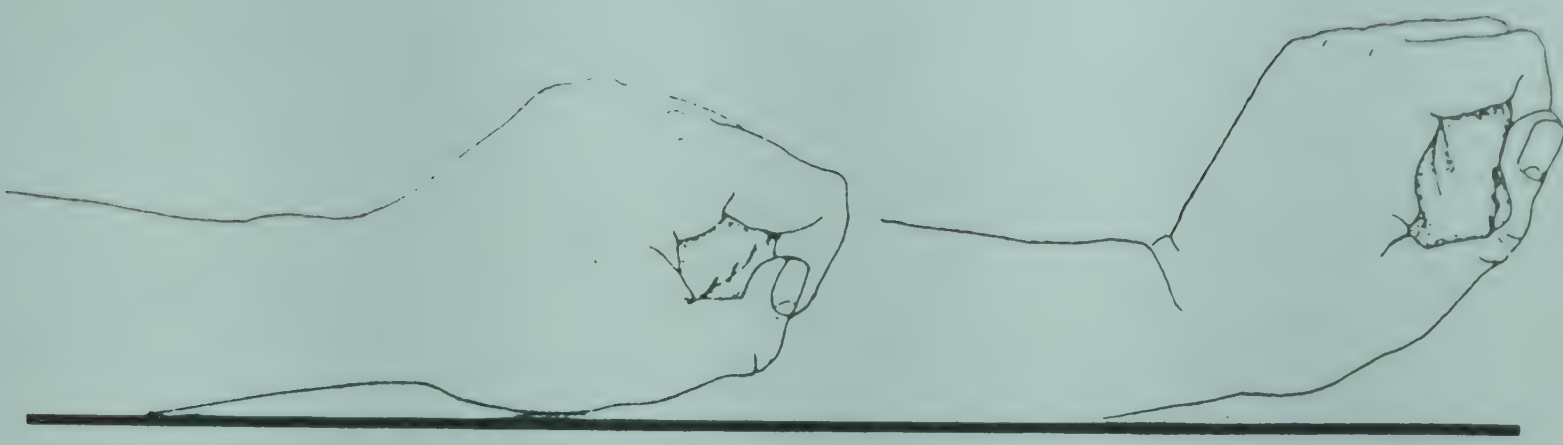
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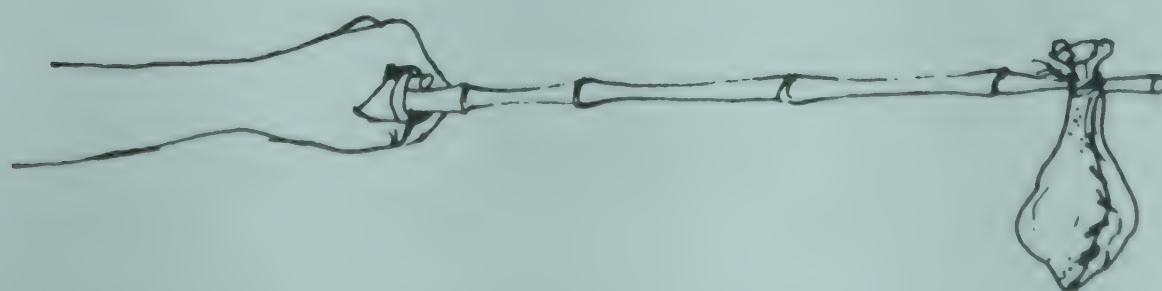
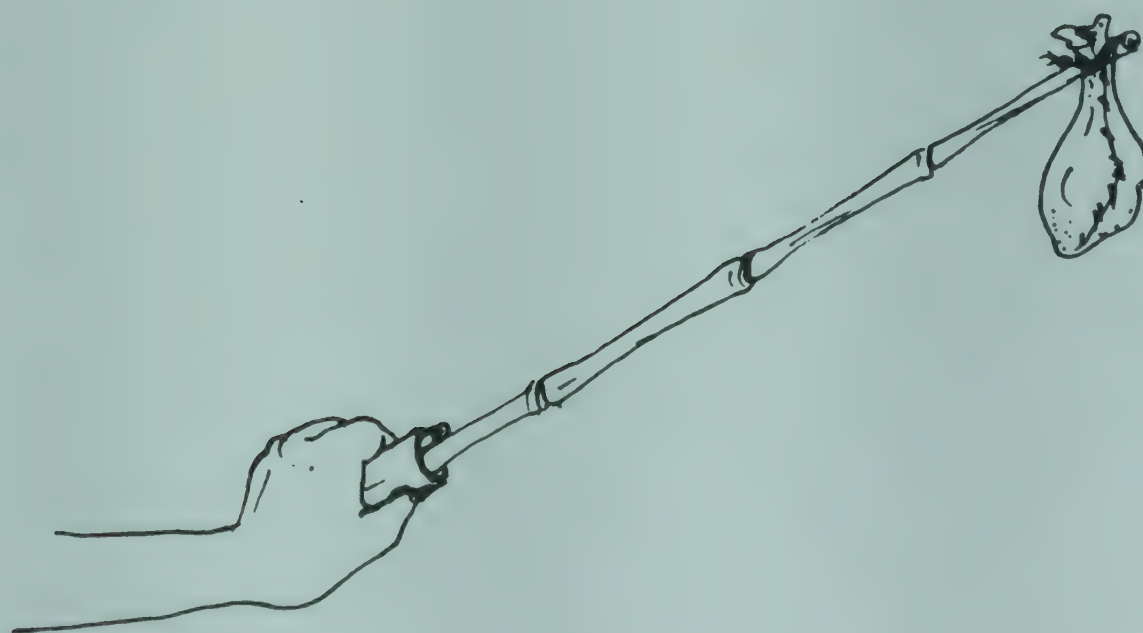
LONG REACHER (TONGS)



HAND EXERCISER

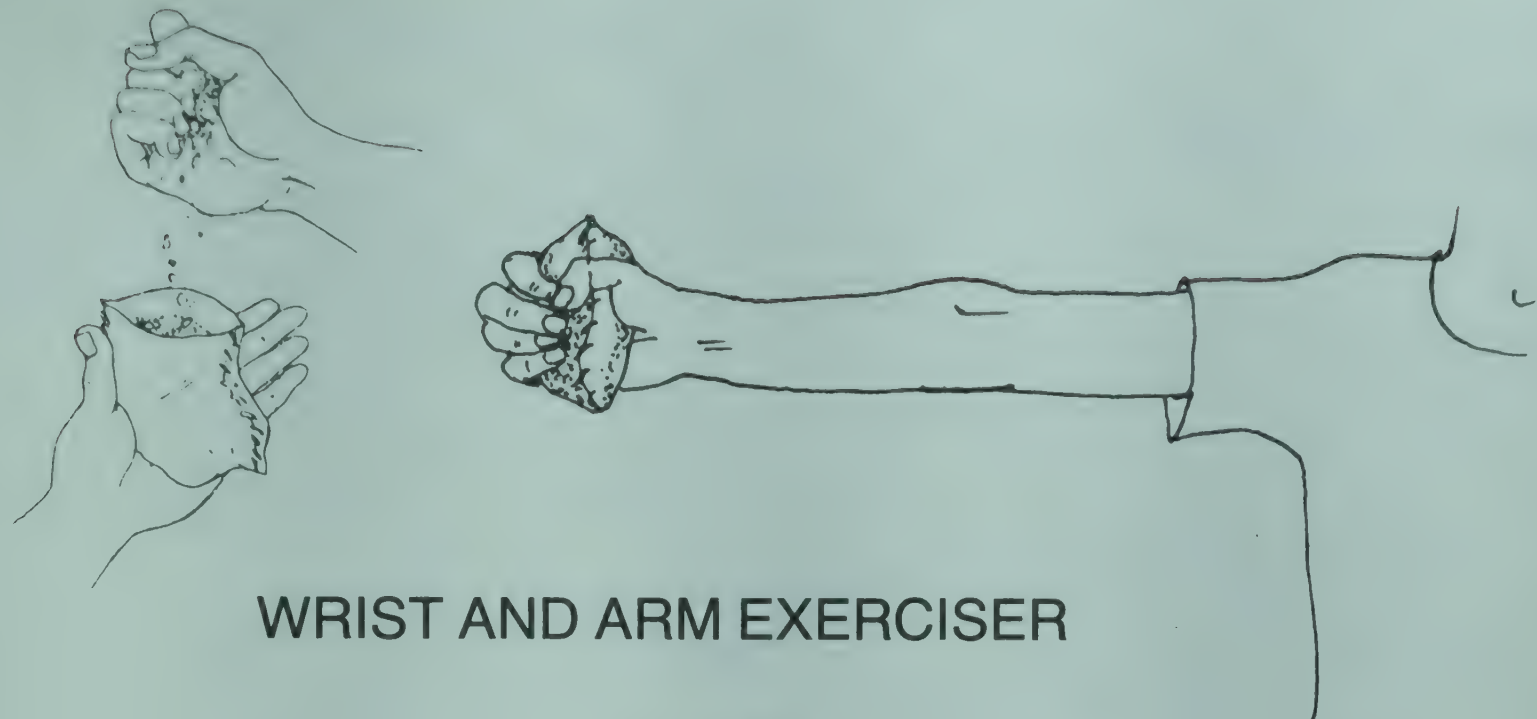


WRIST AND ARM EXERCISER

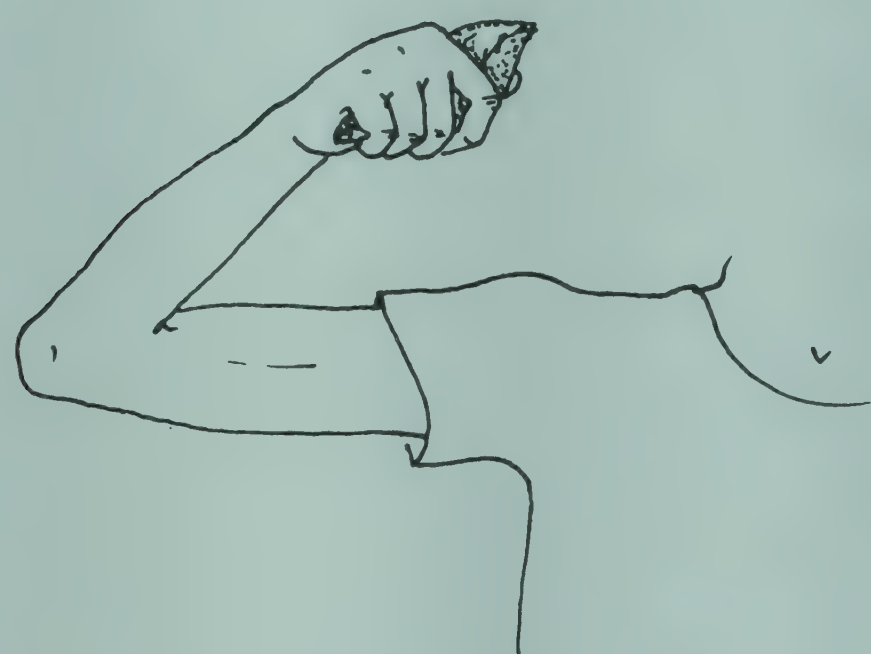


WEIGHTED ARM EXERCISER

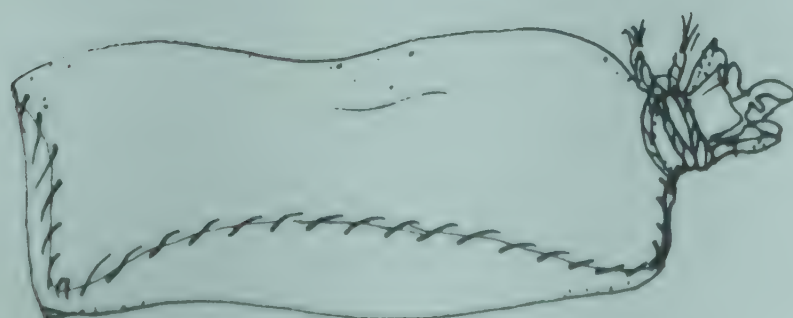
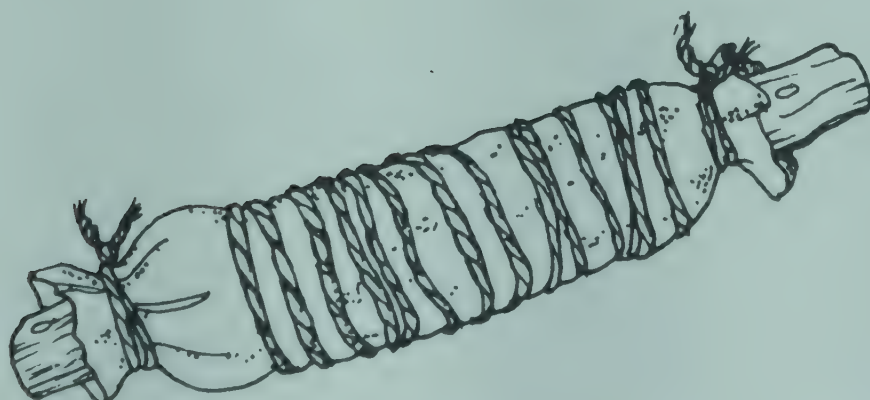
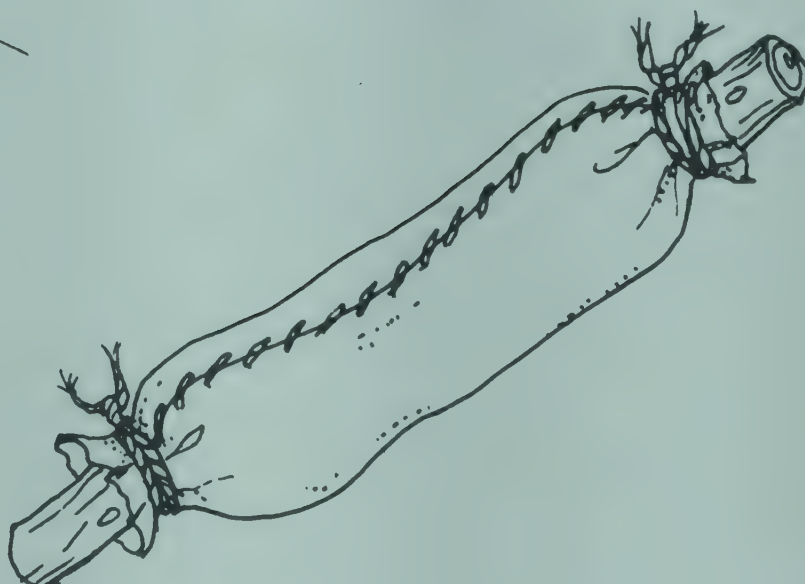
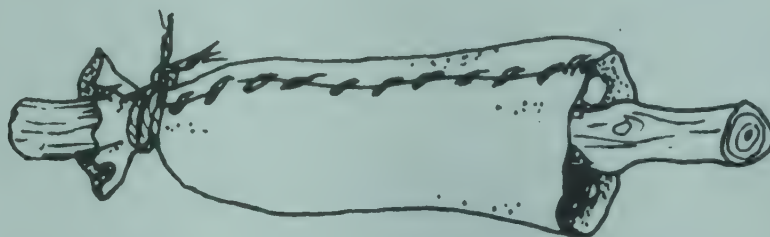
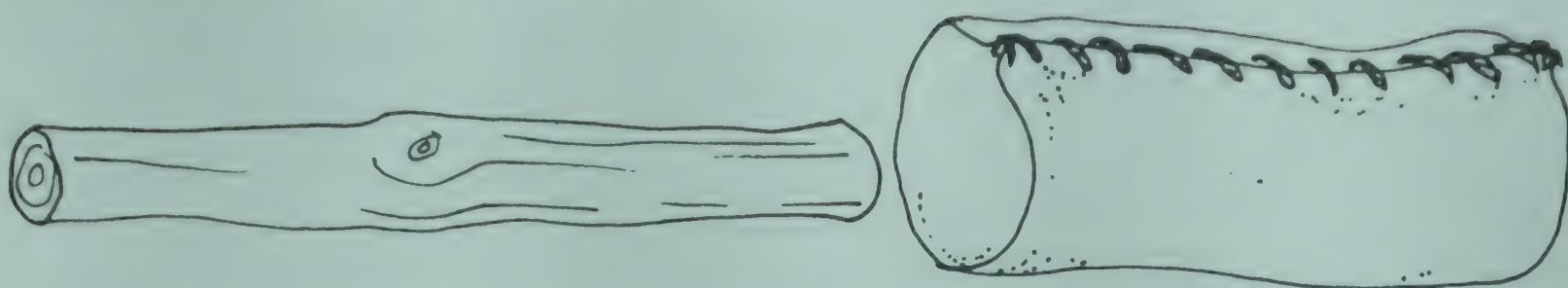




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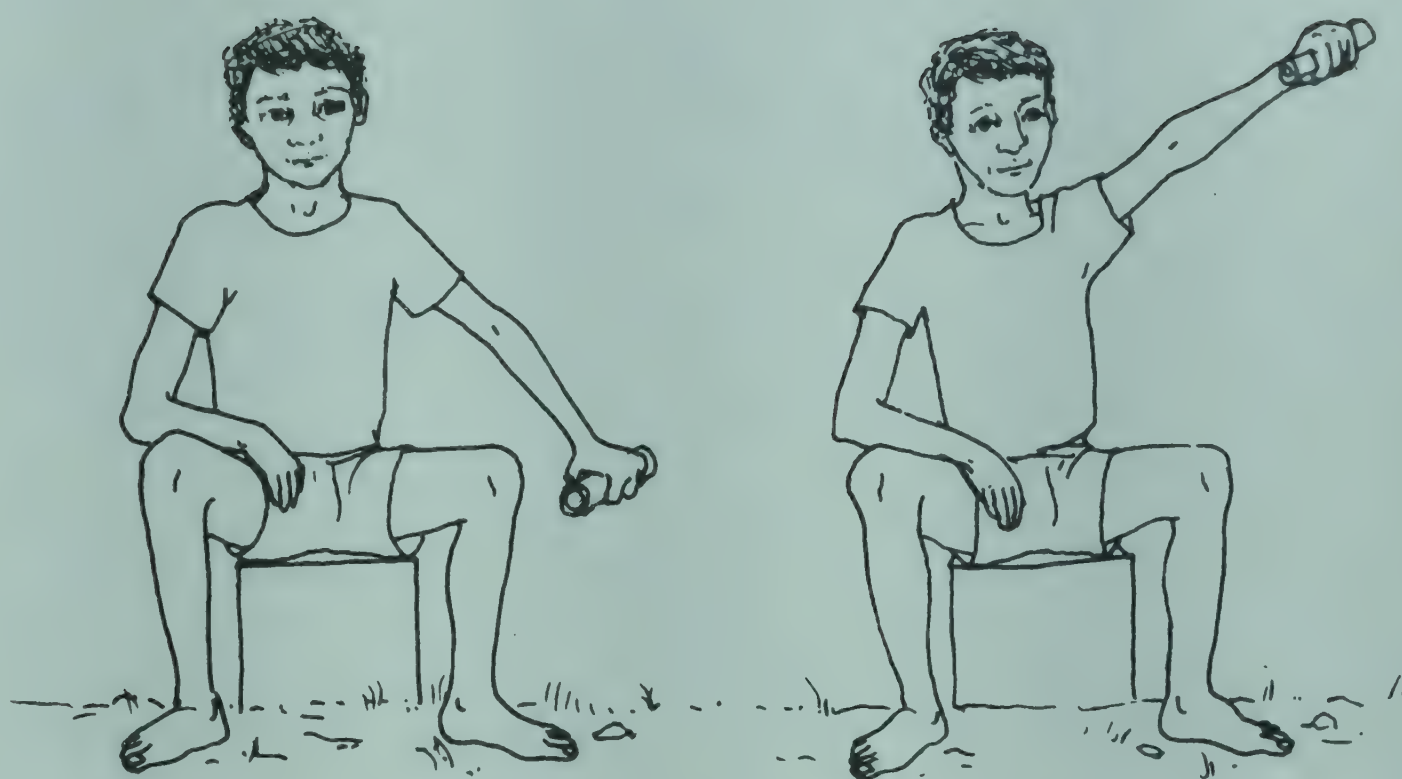


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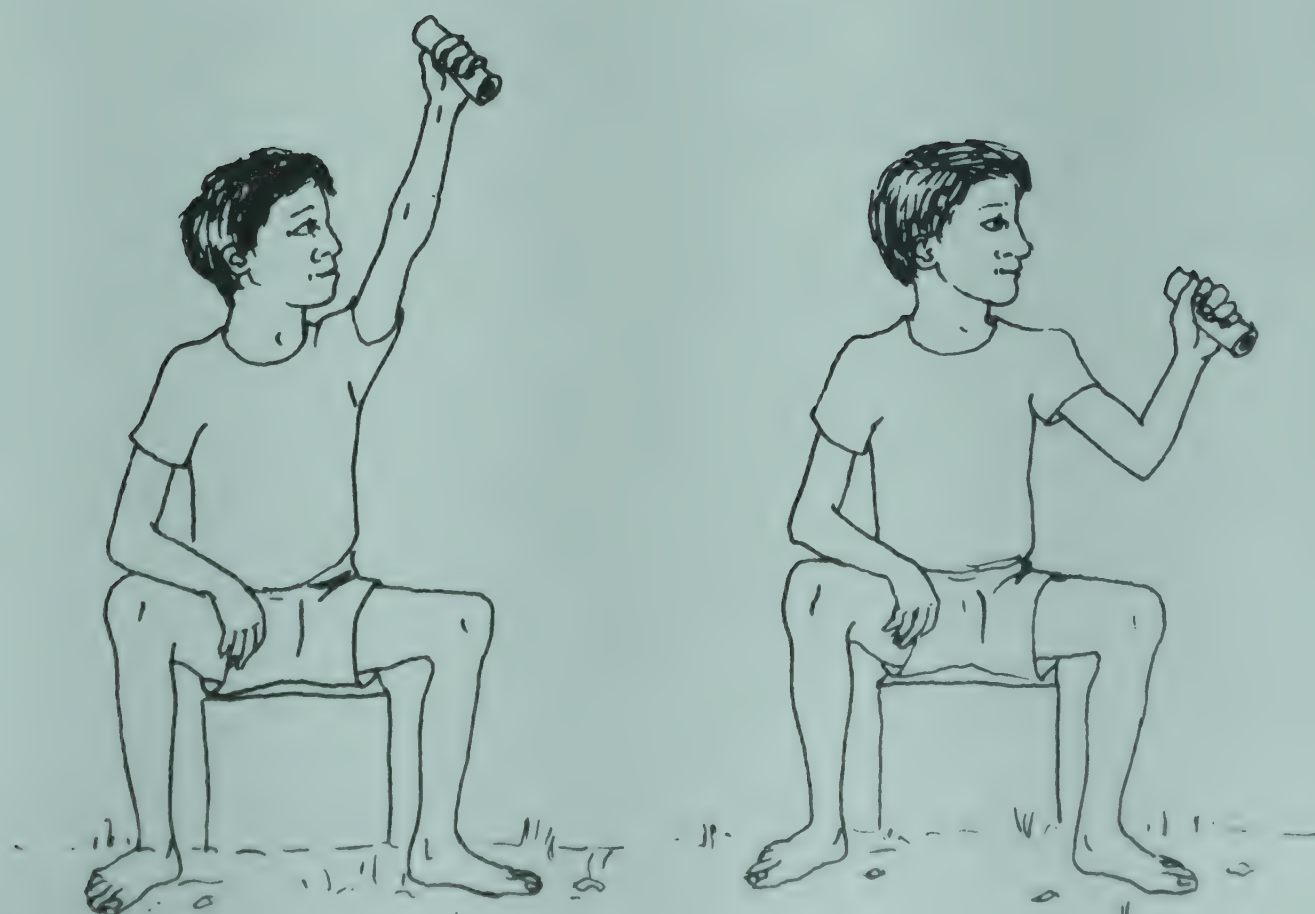


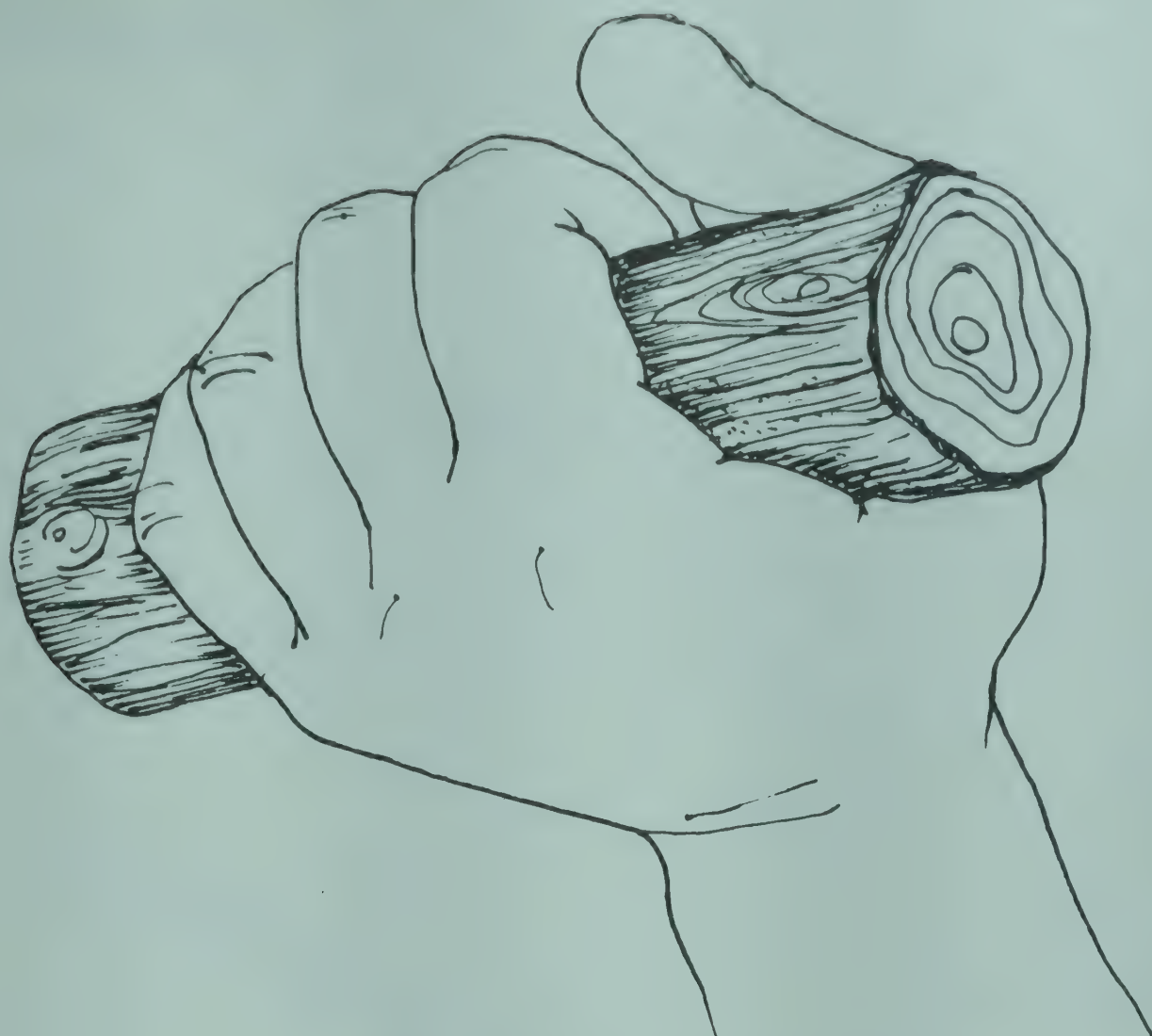
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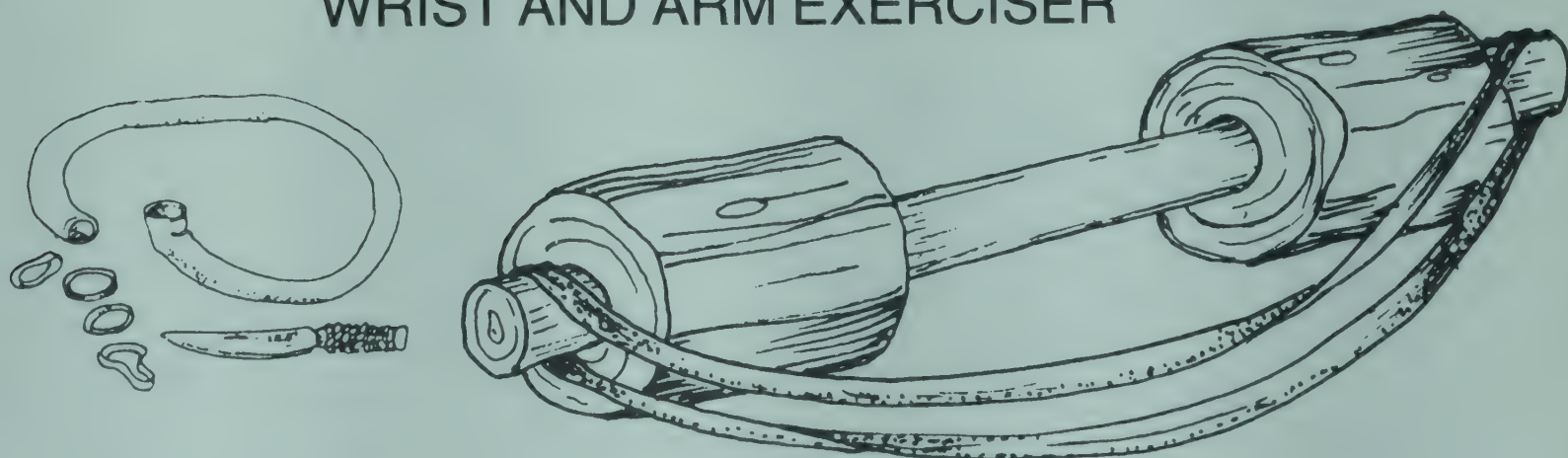


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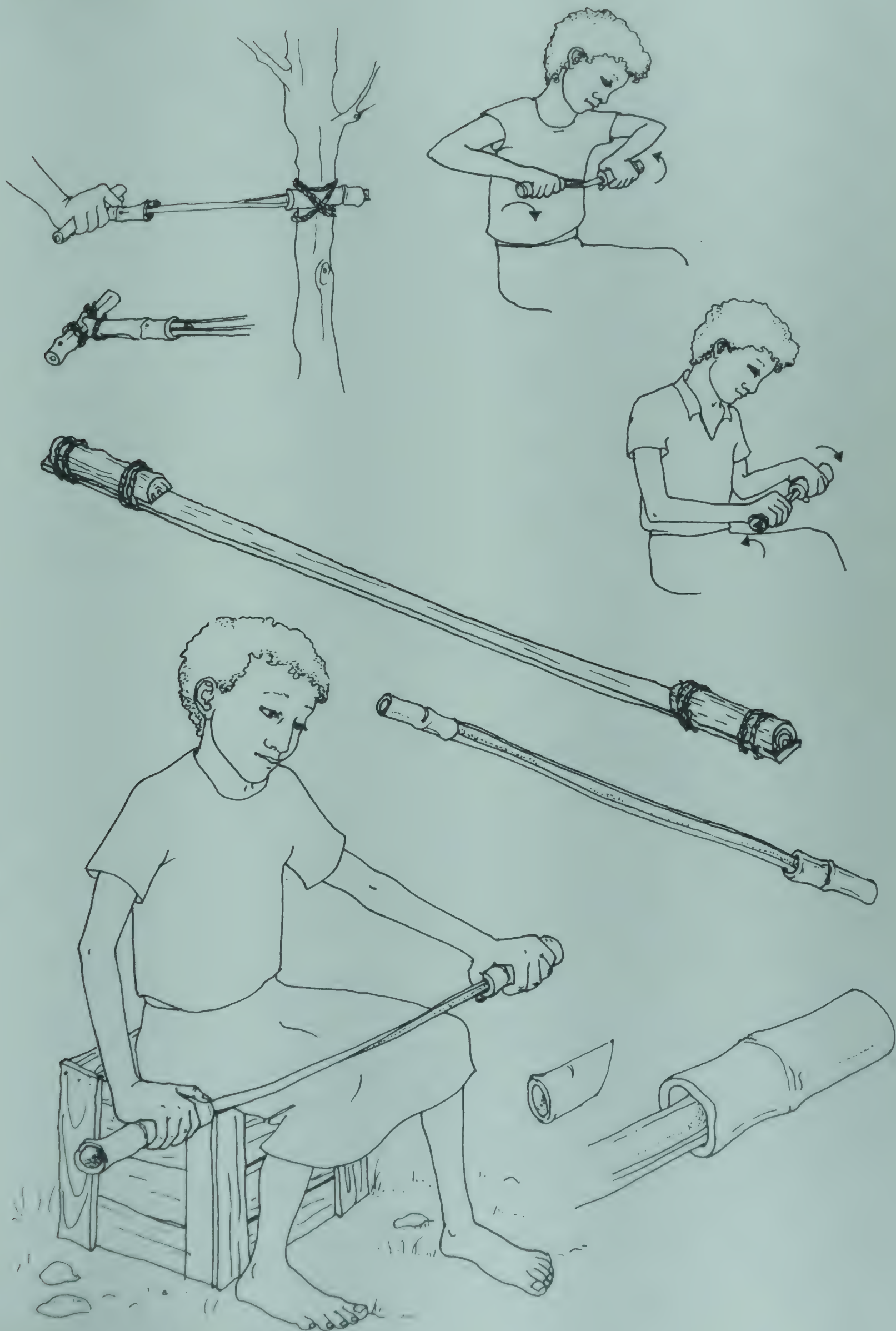




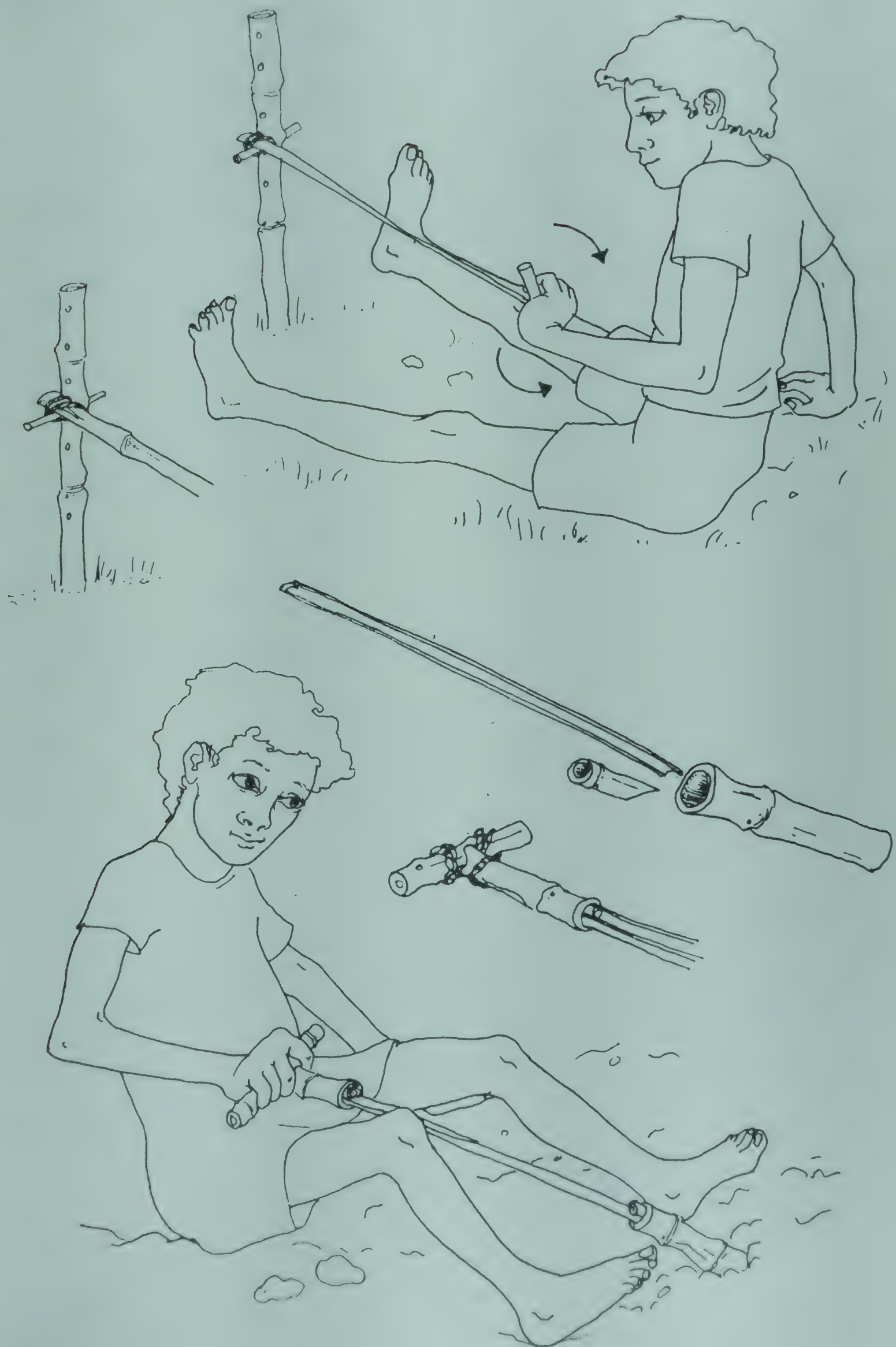
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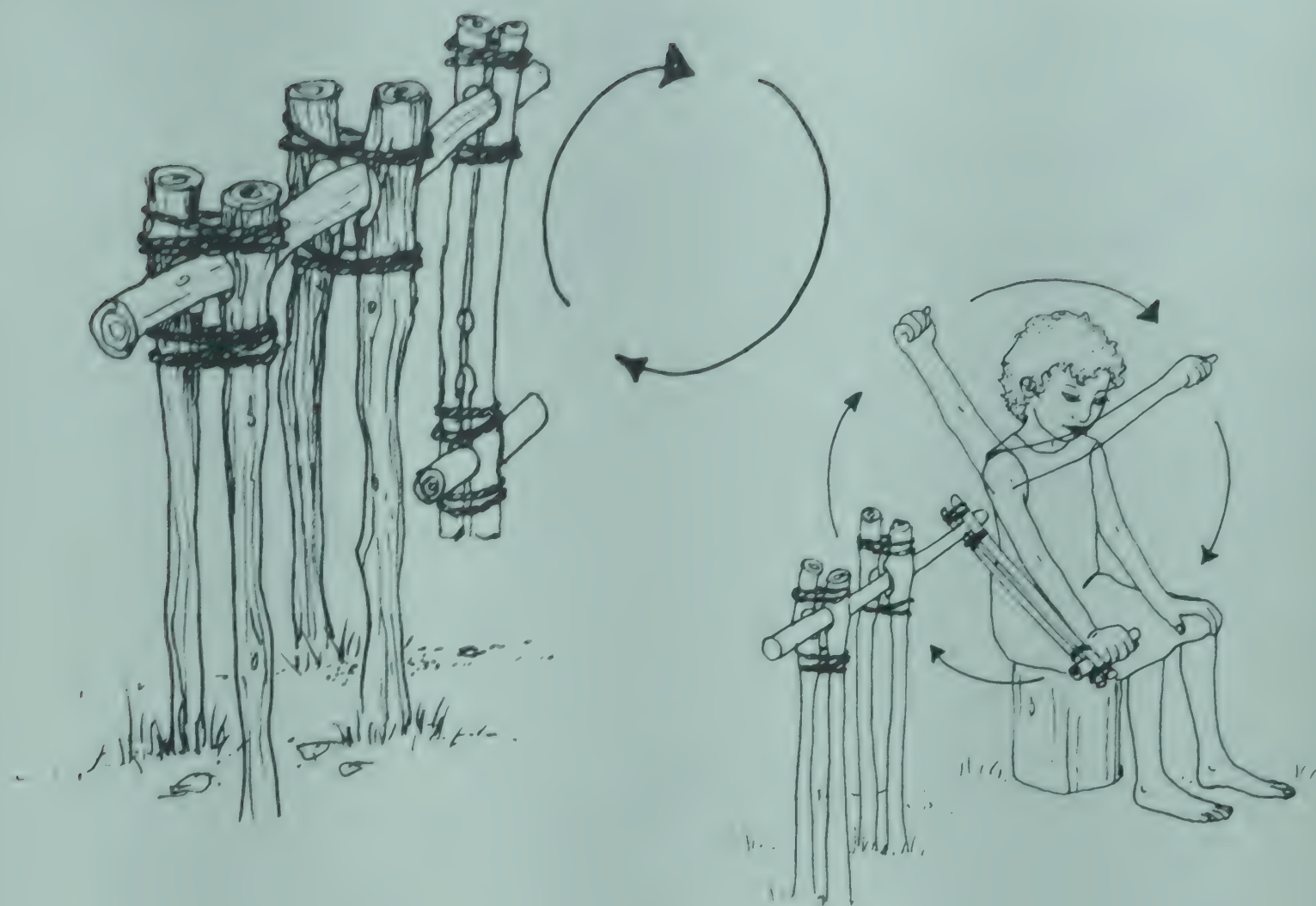


TWISTER



TWISTER

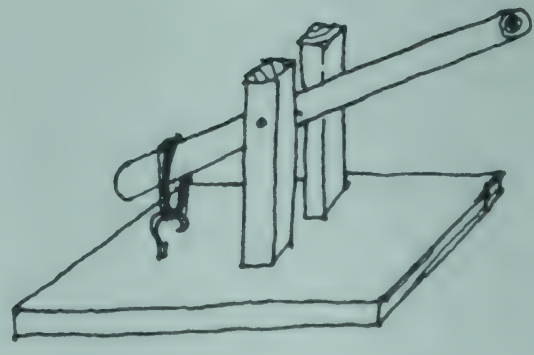
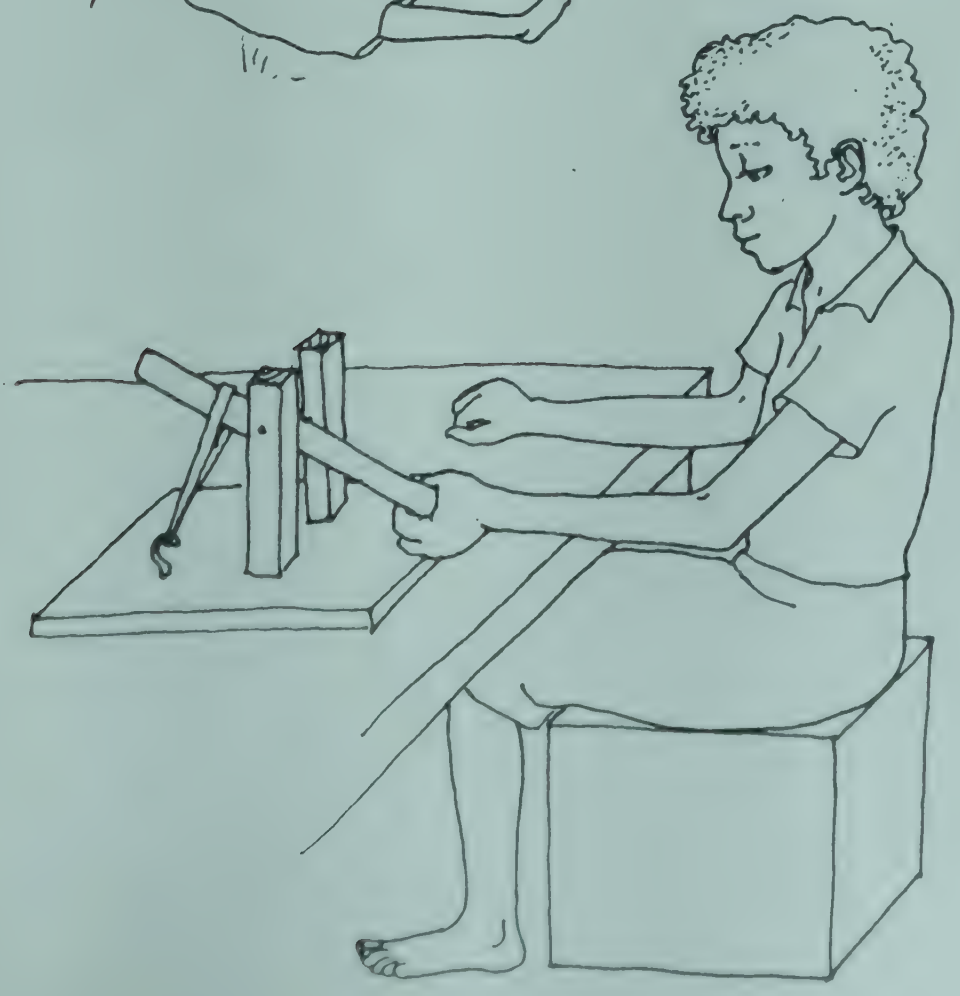
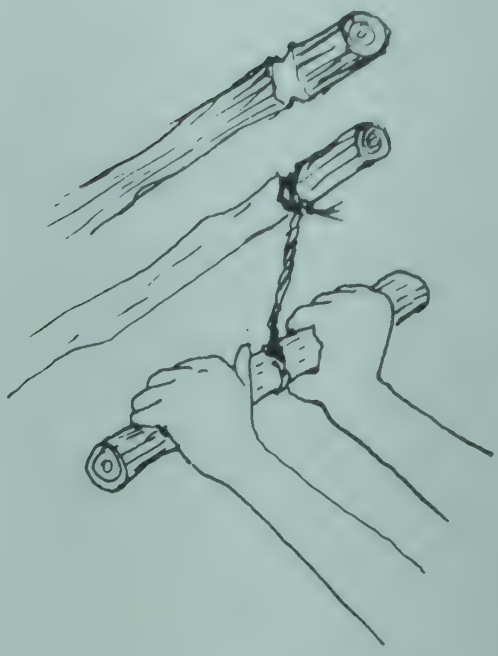




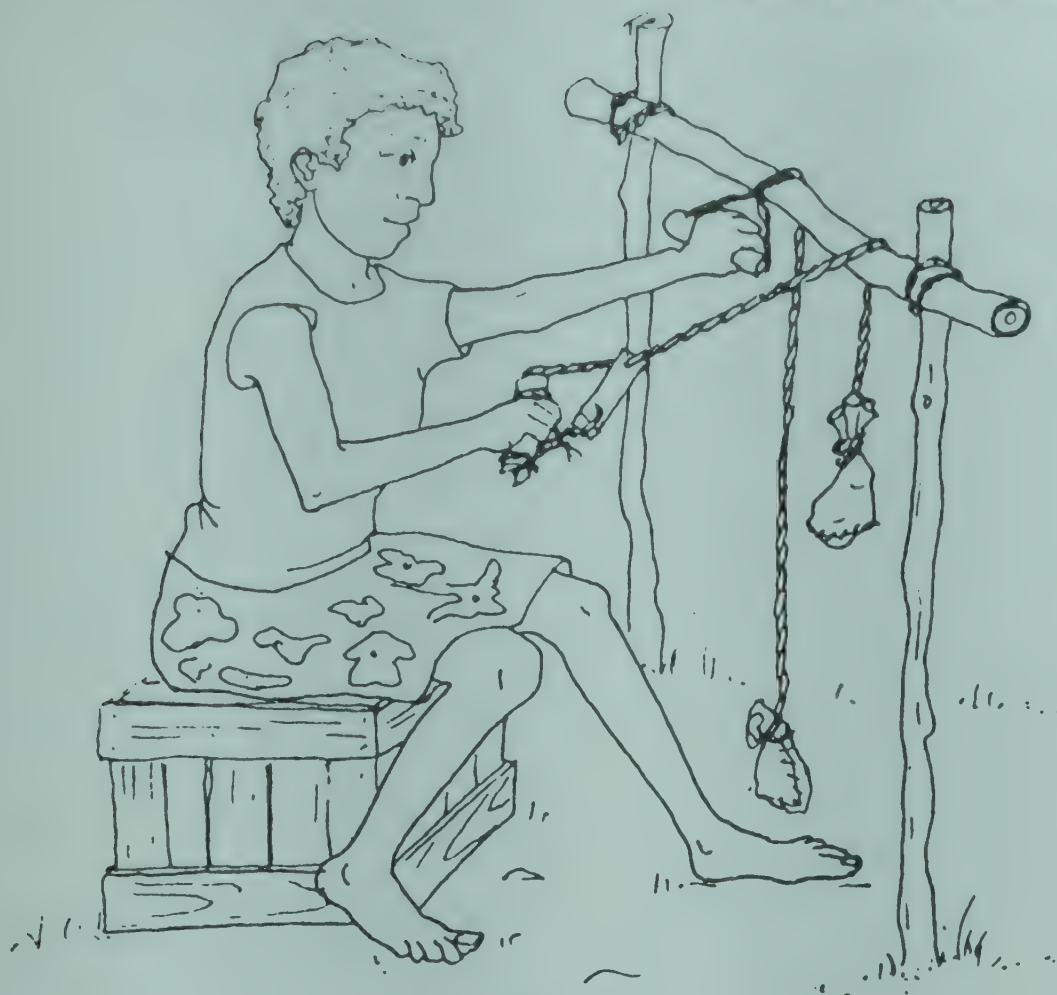
ARM AND SHOULDER EXERCISER



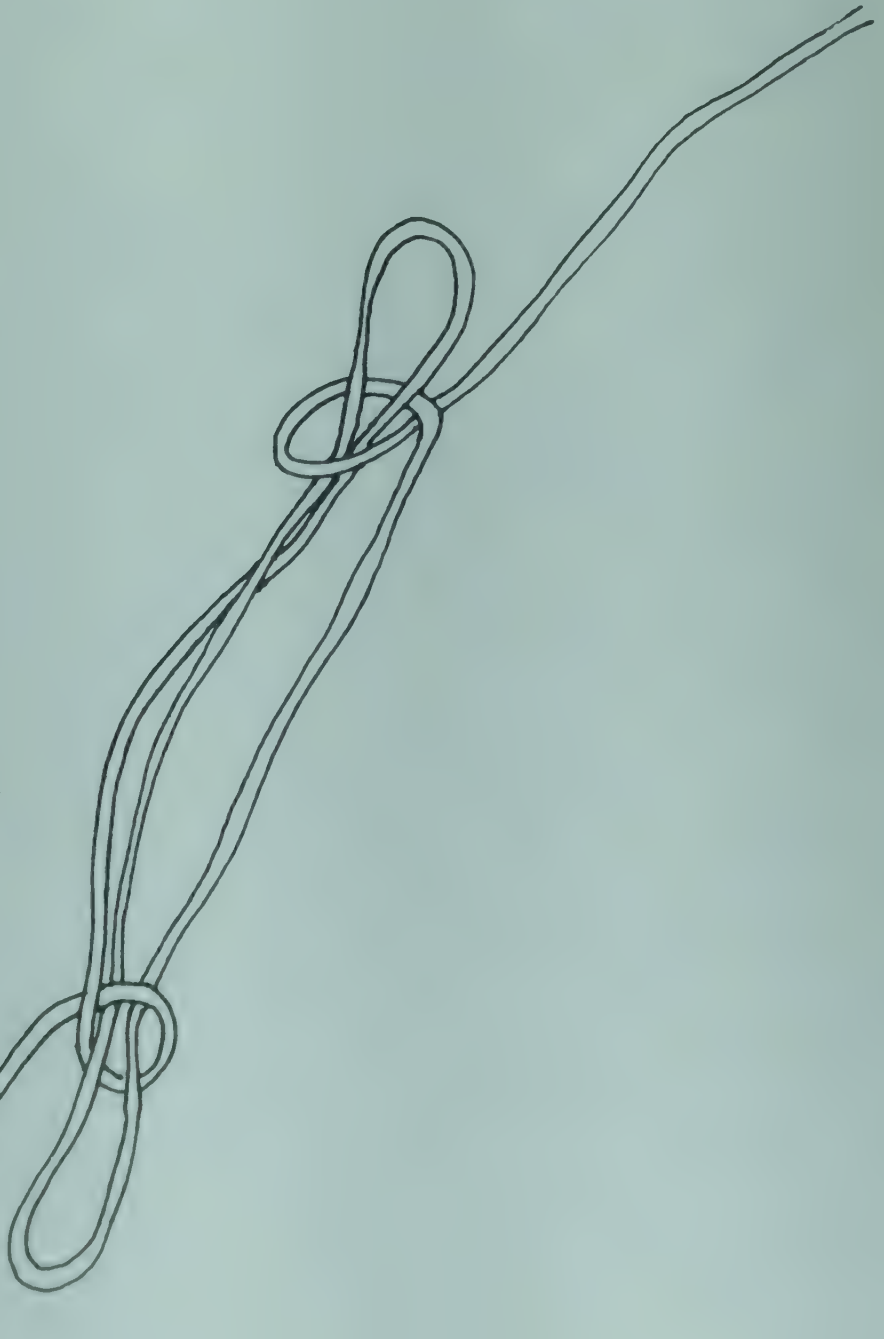
ARM EXERCISER



ARM AND LEG EXERCISER

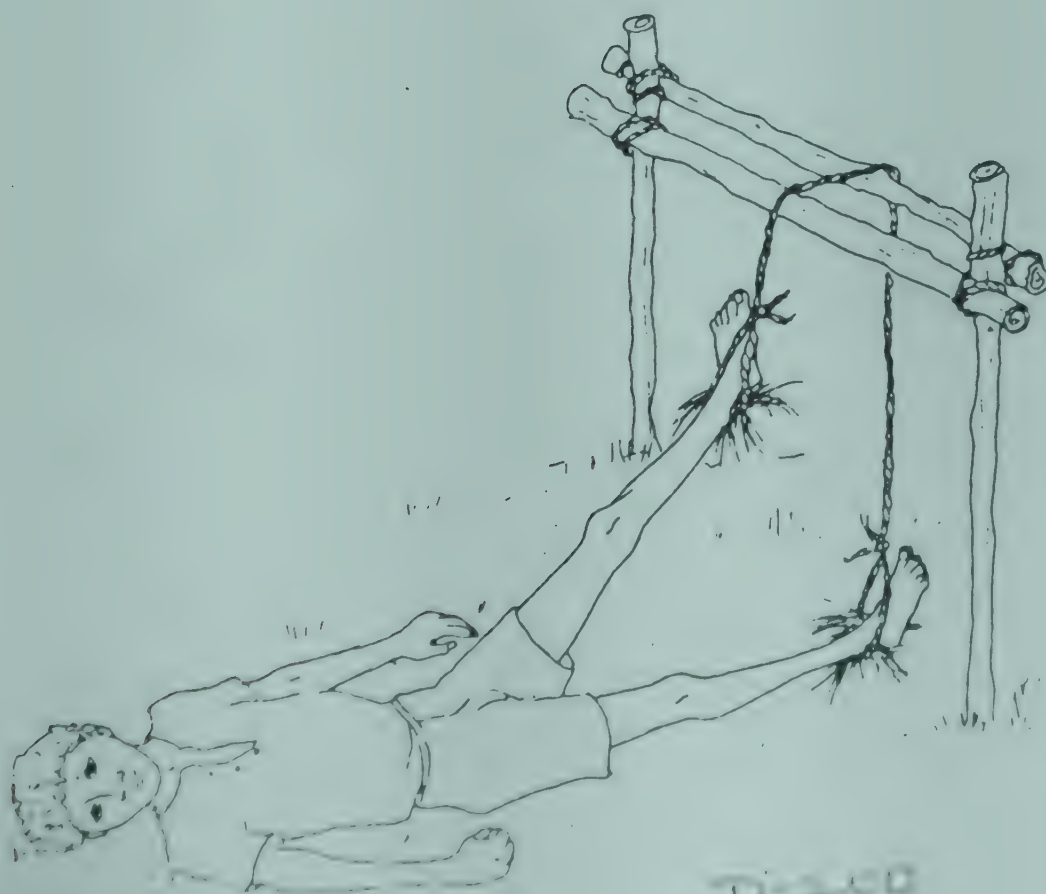


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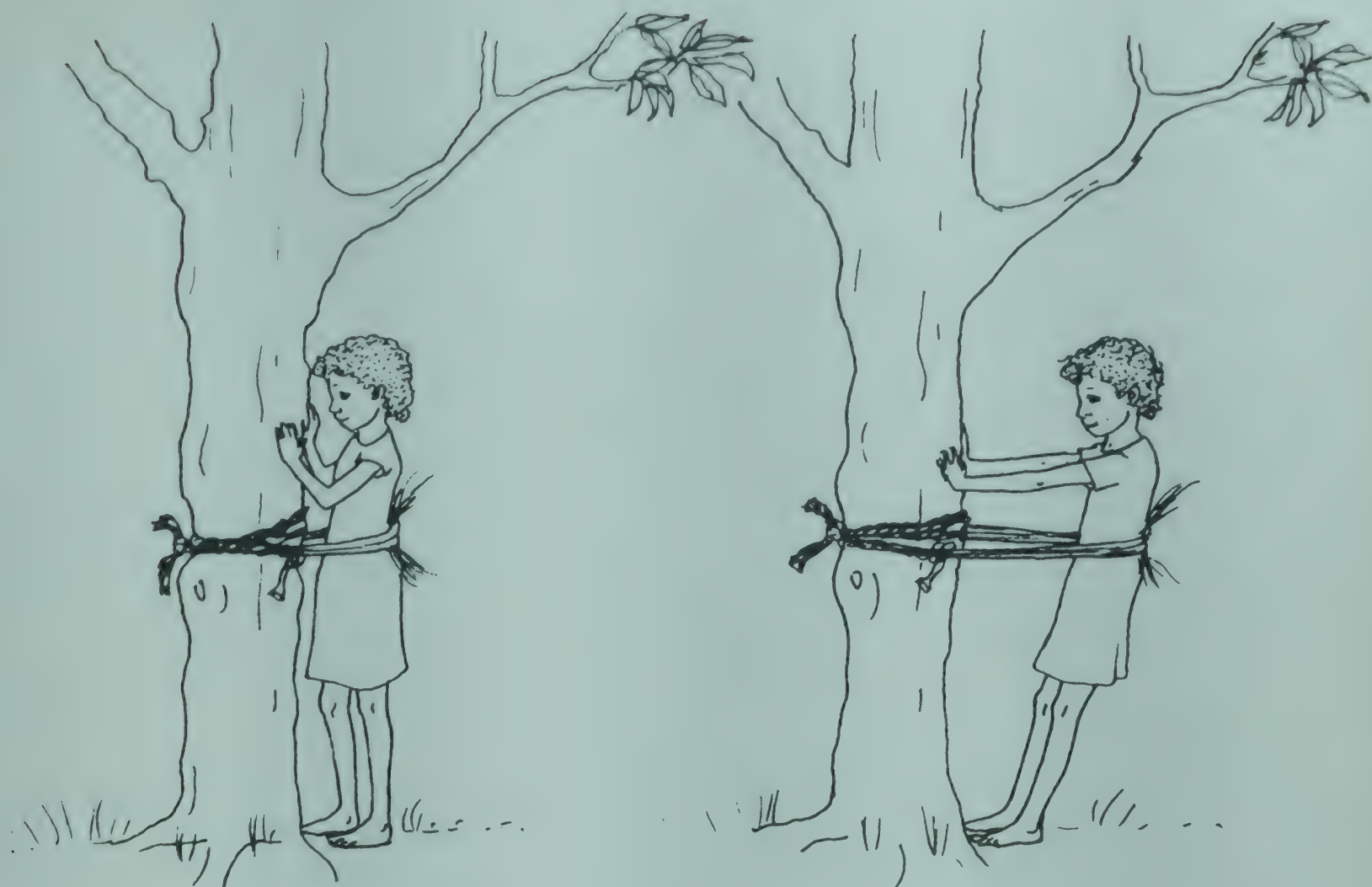


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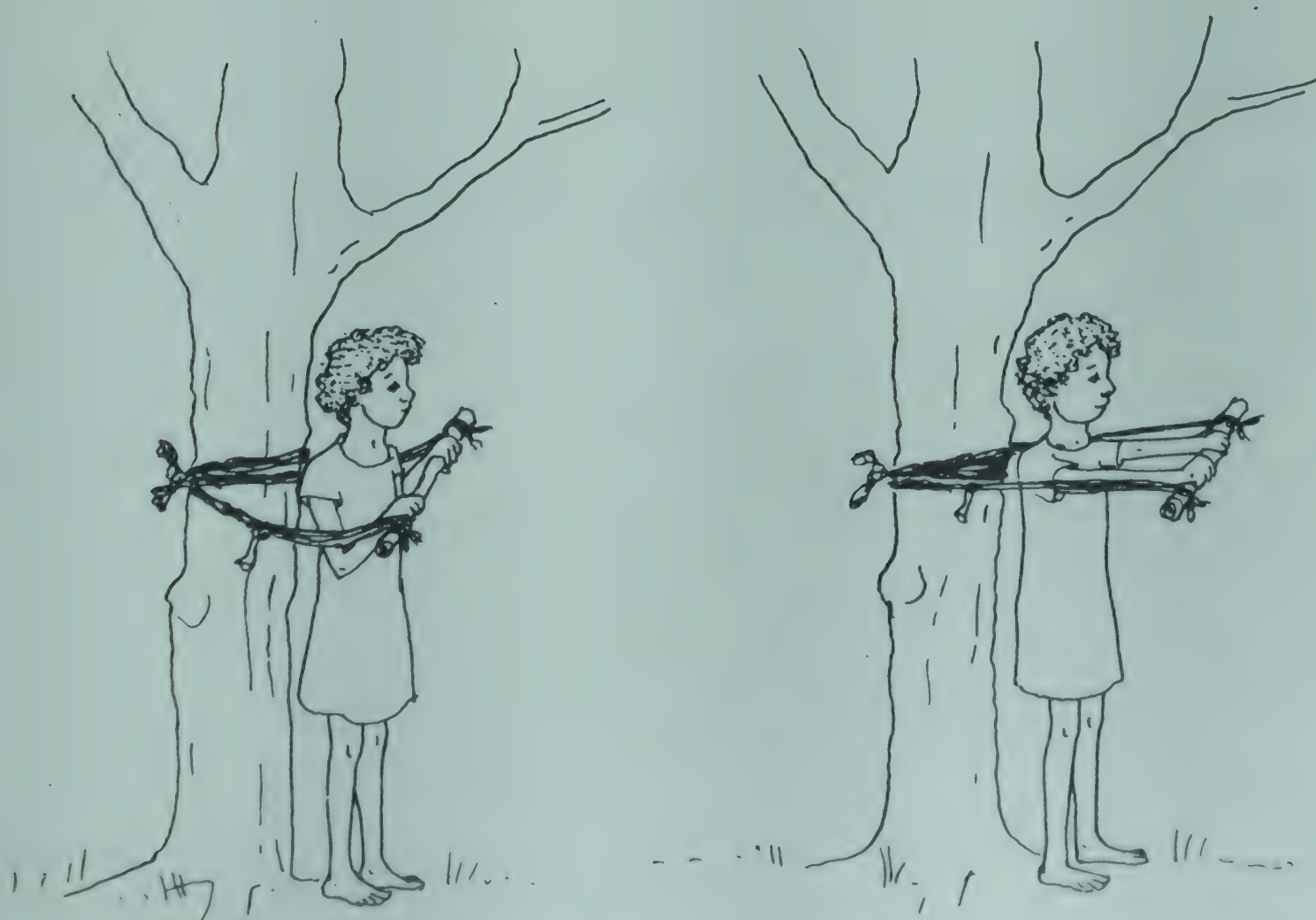


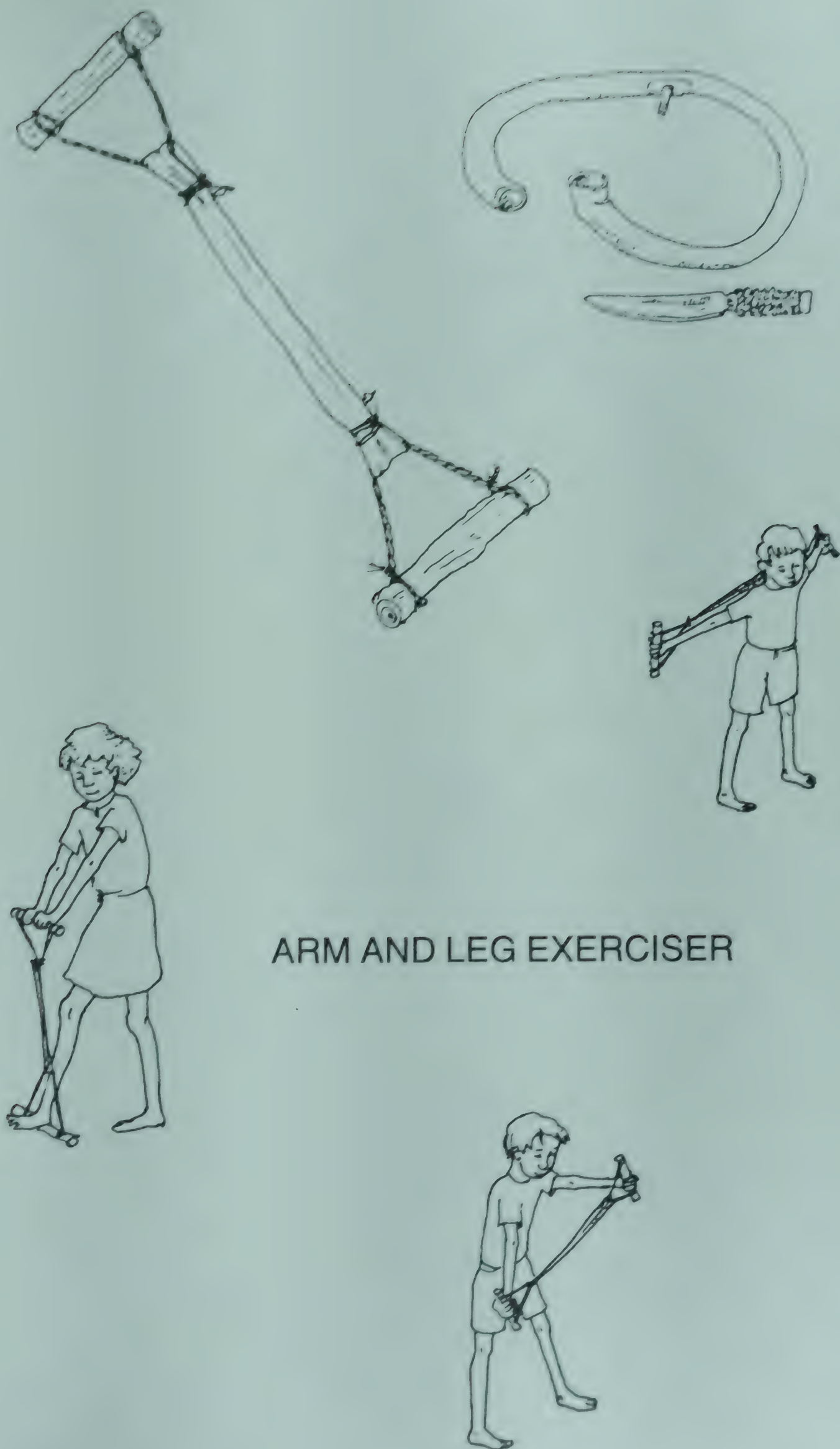
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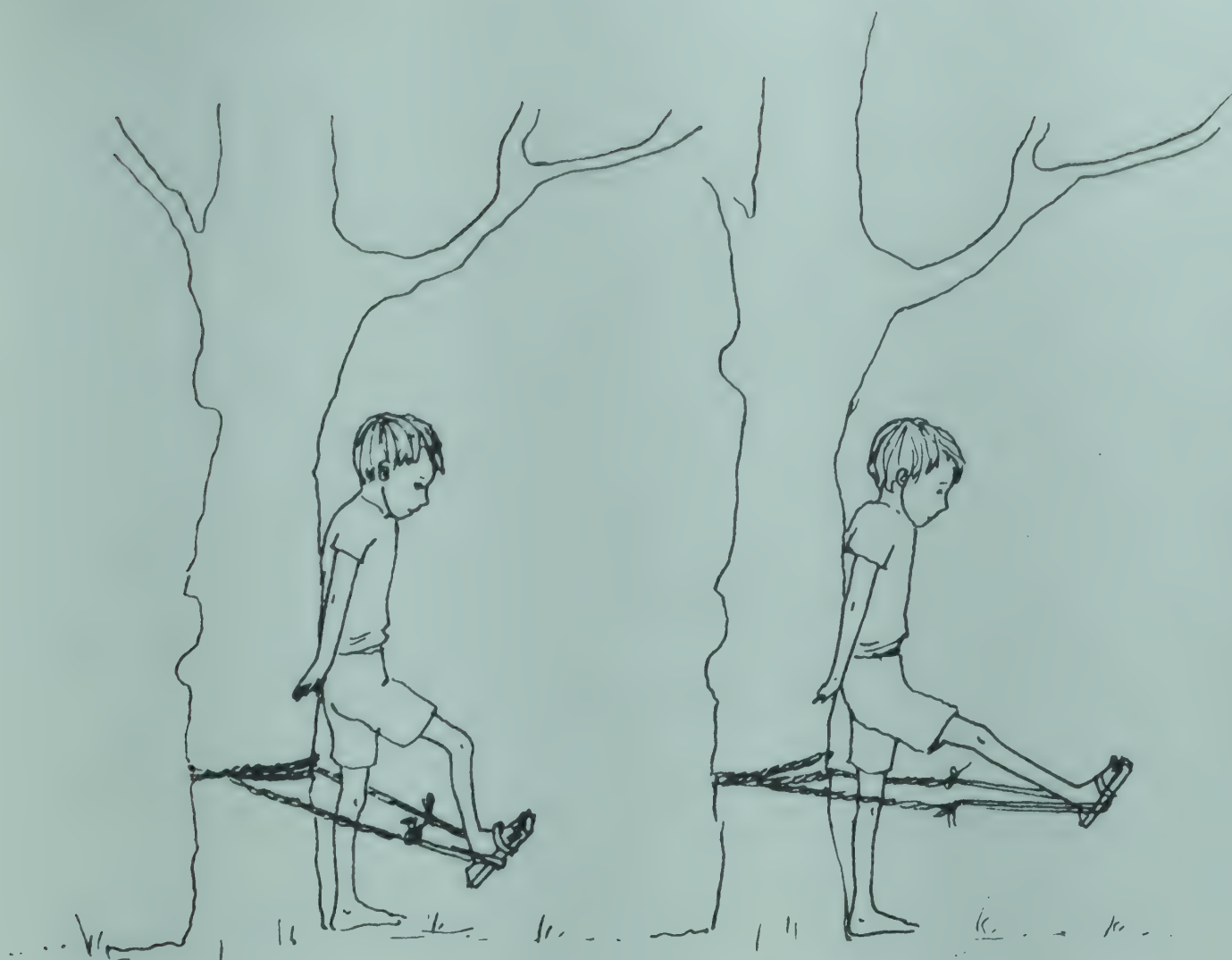


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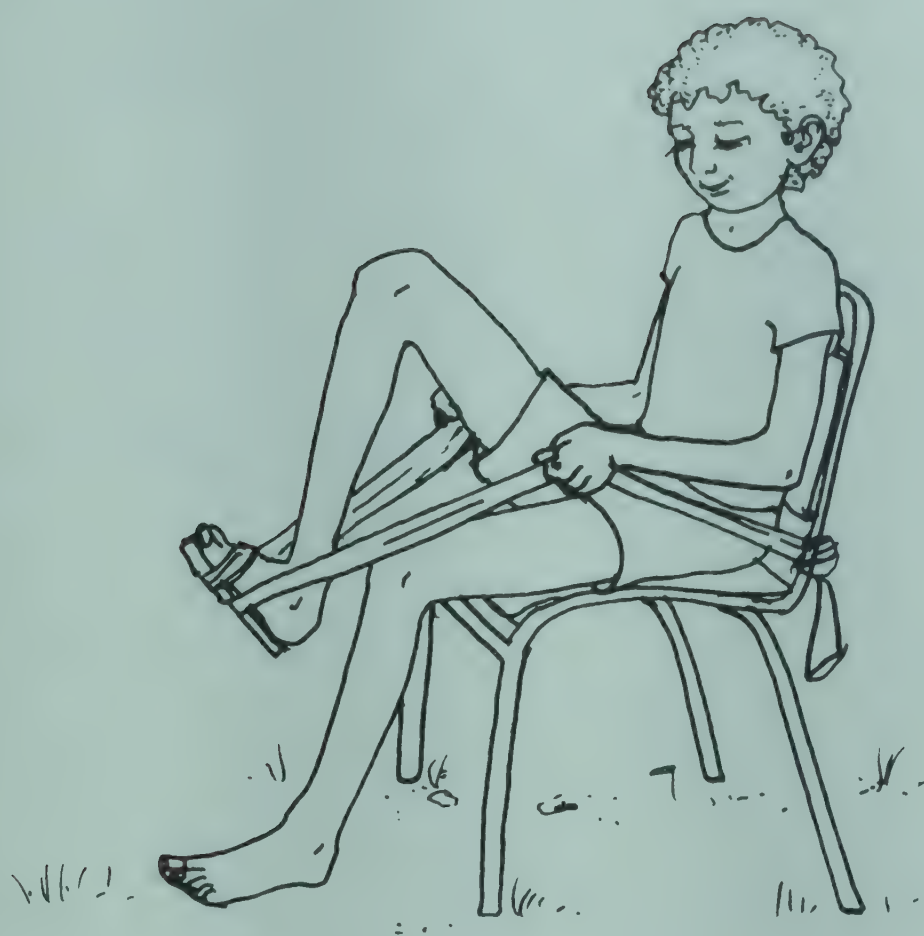




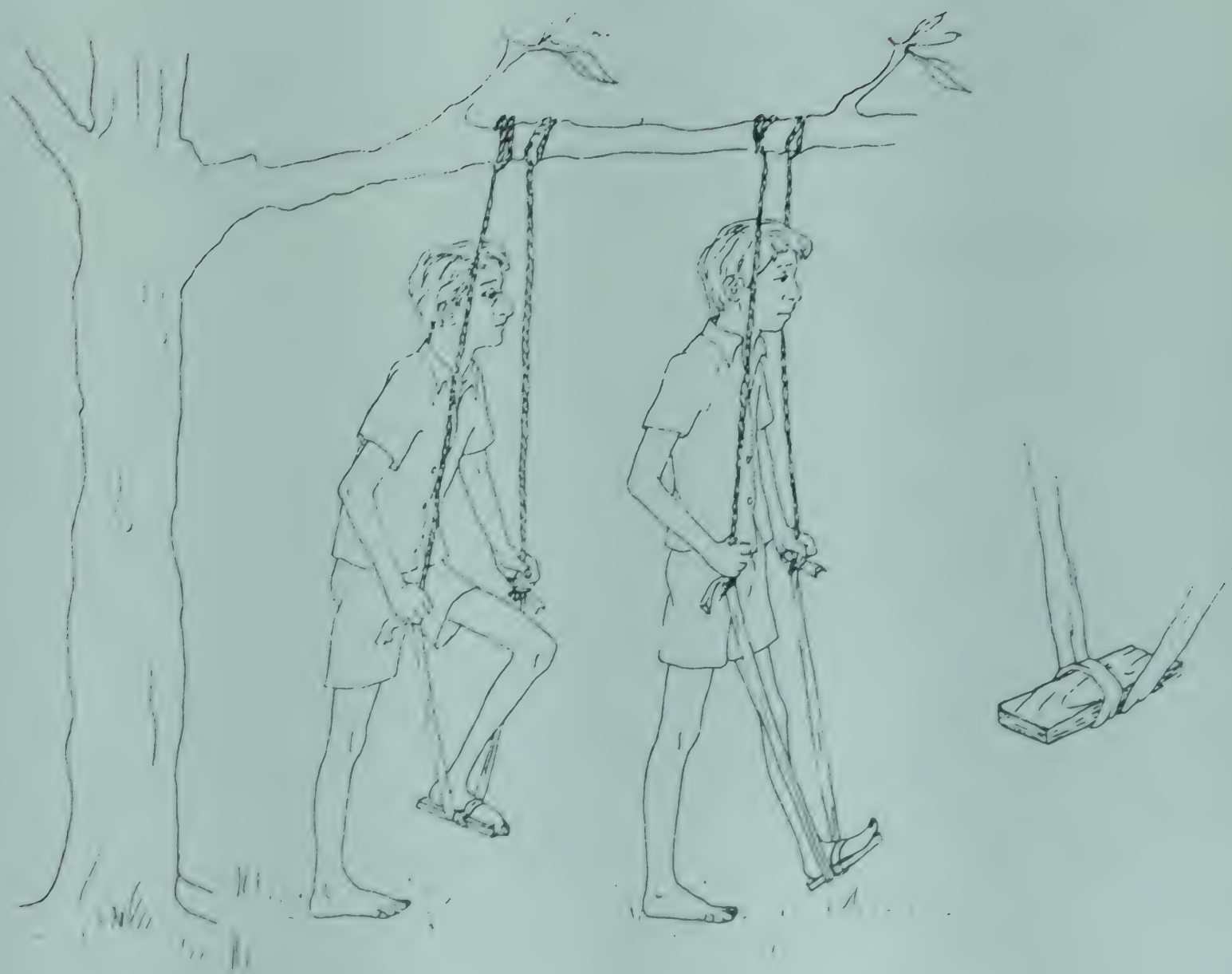
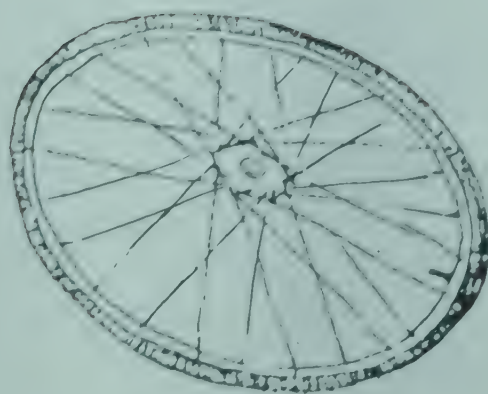
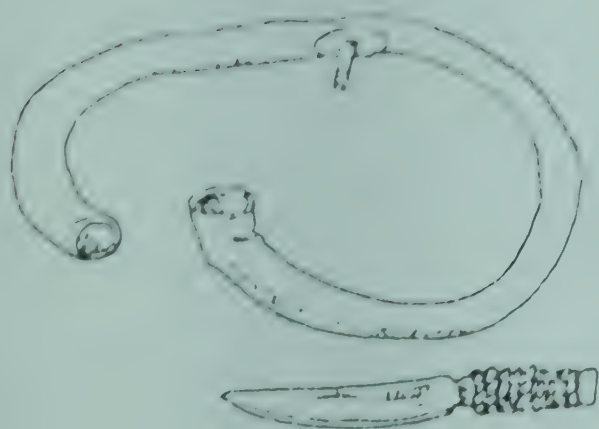


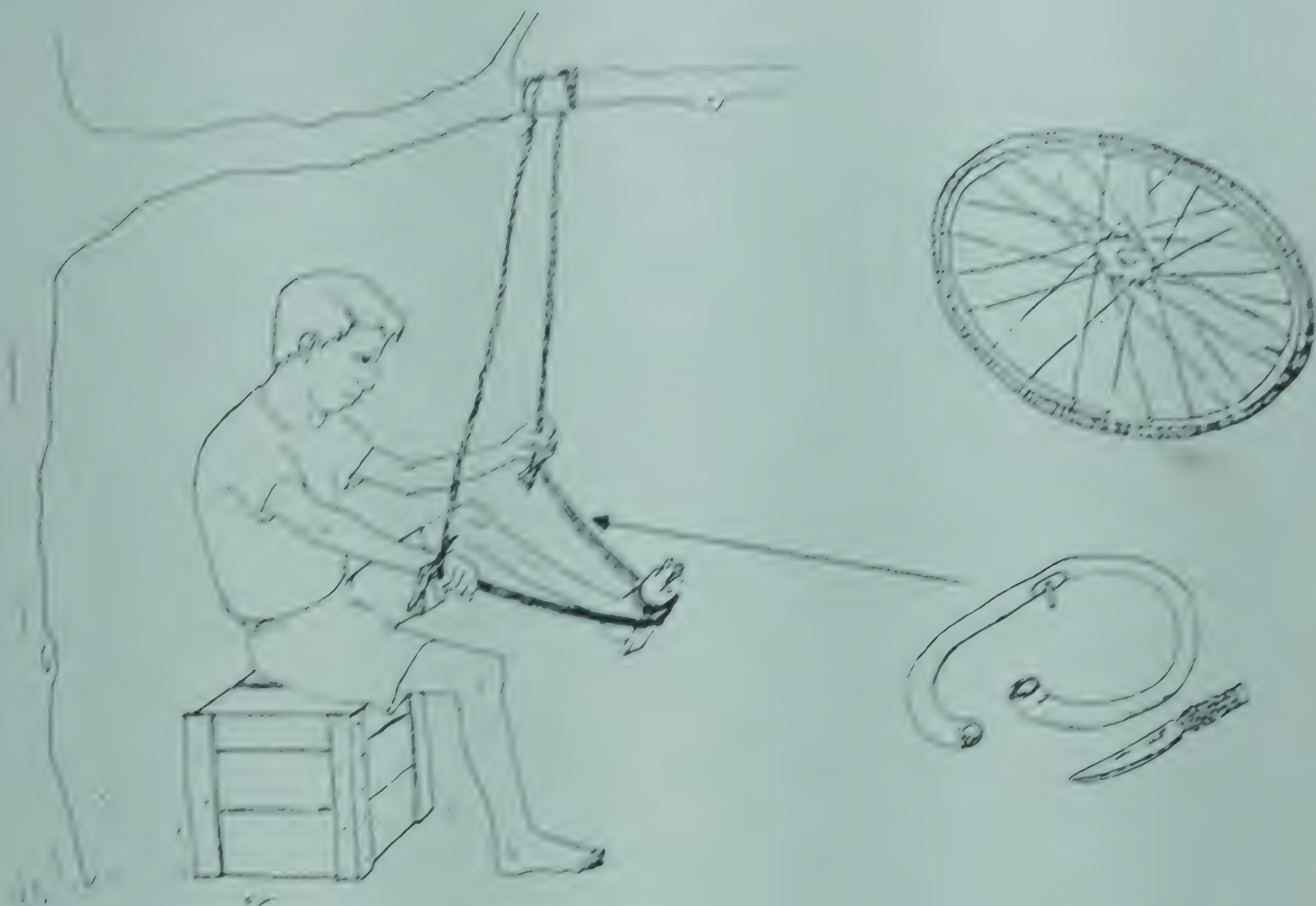
LEG EXERCISER



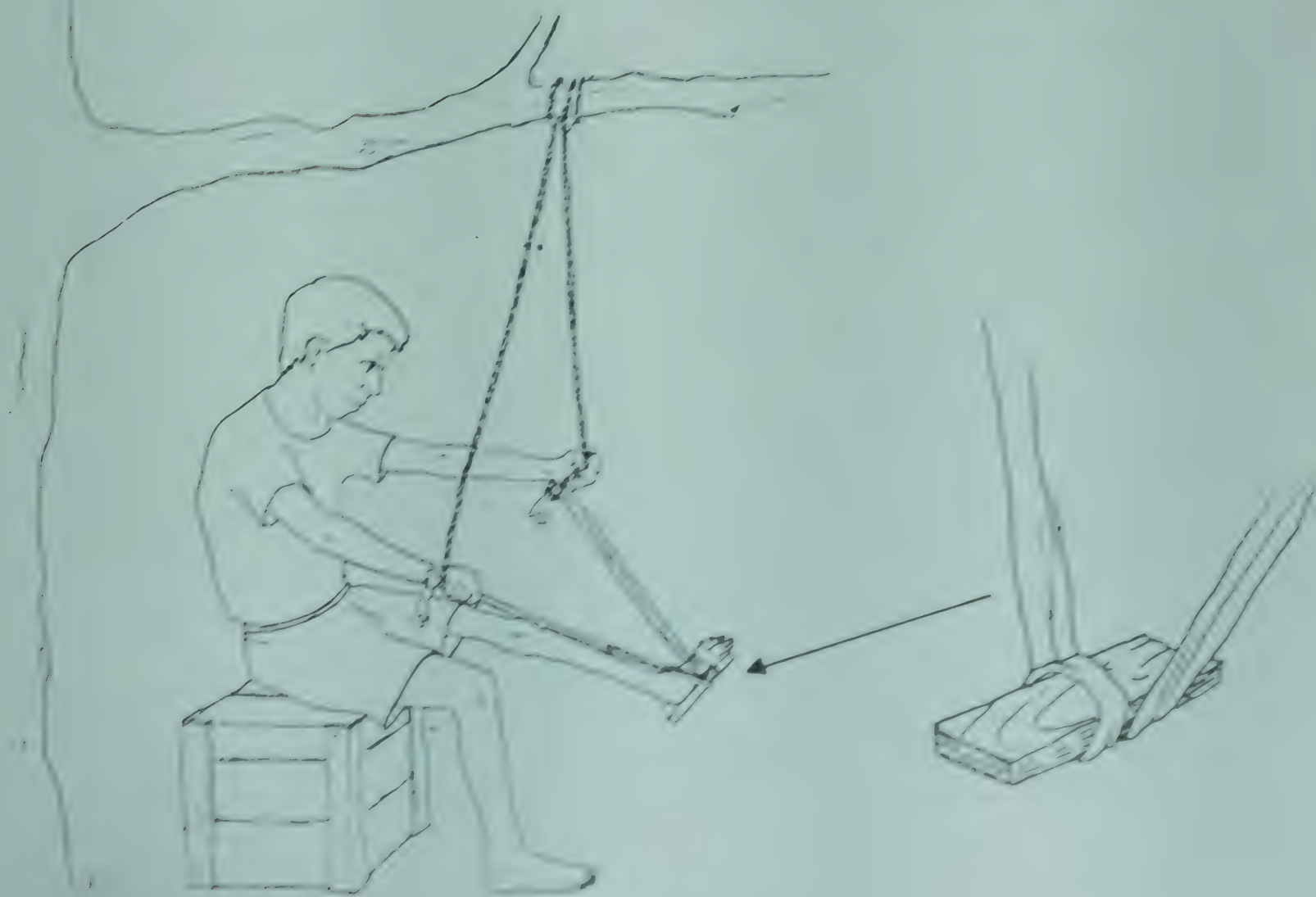


LEG EXERCISER

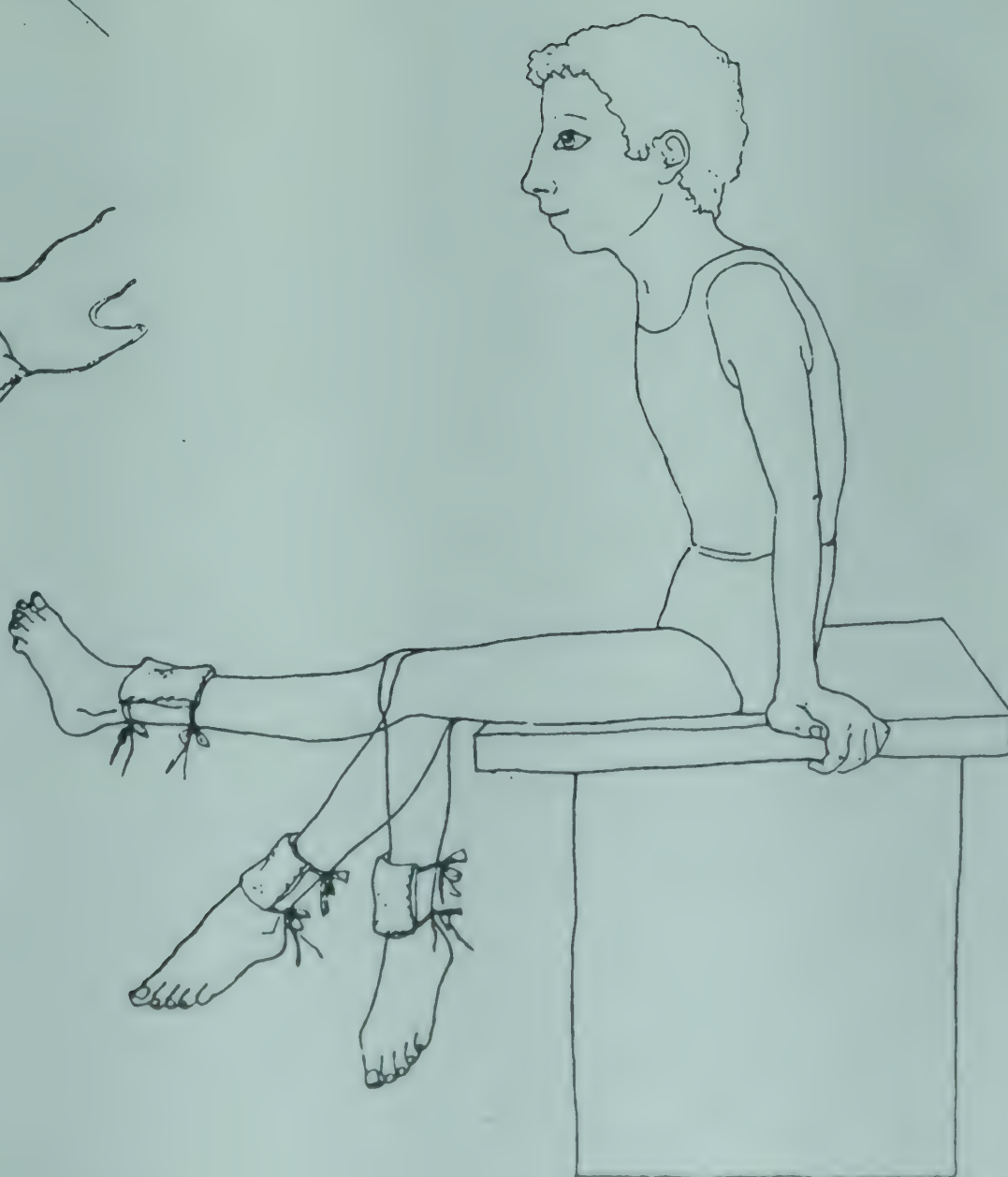
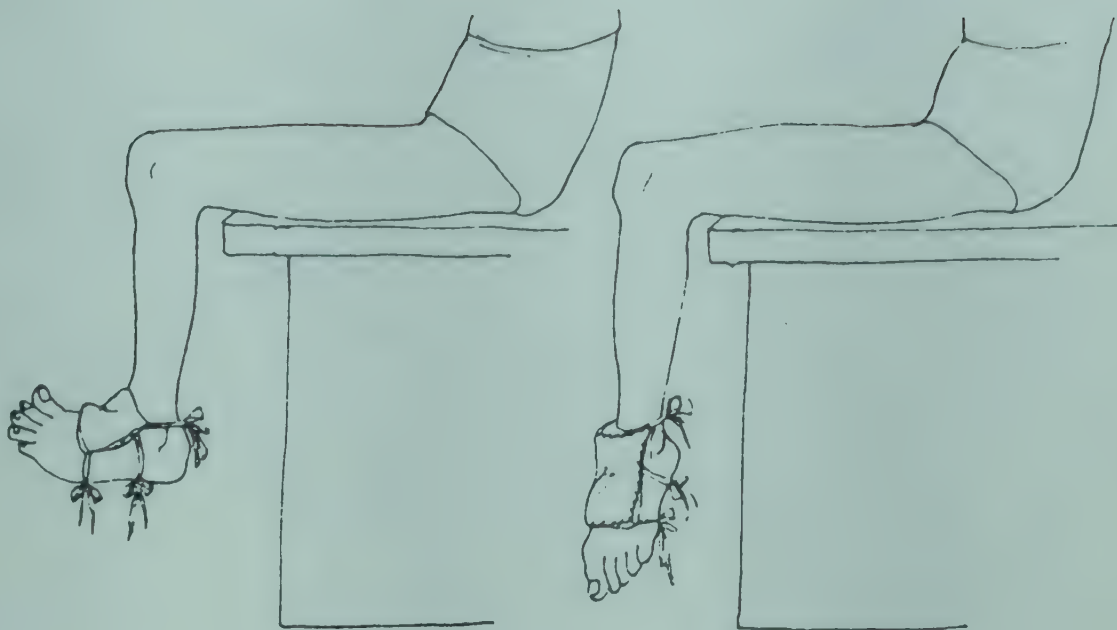
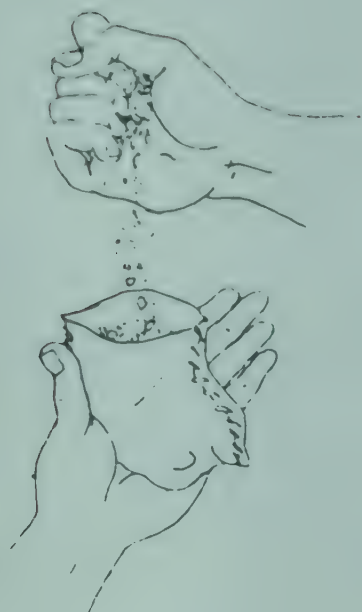




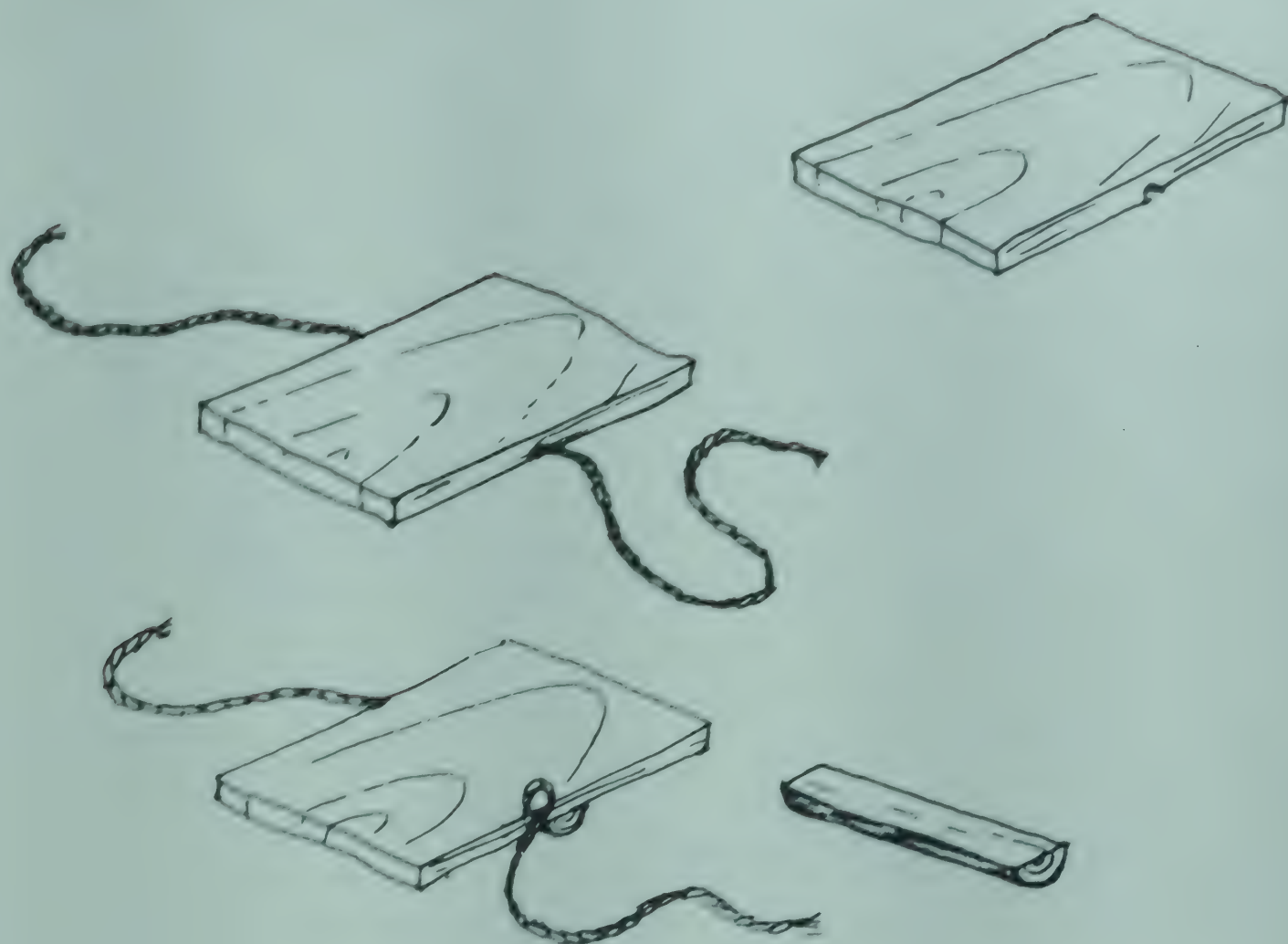
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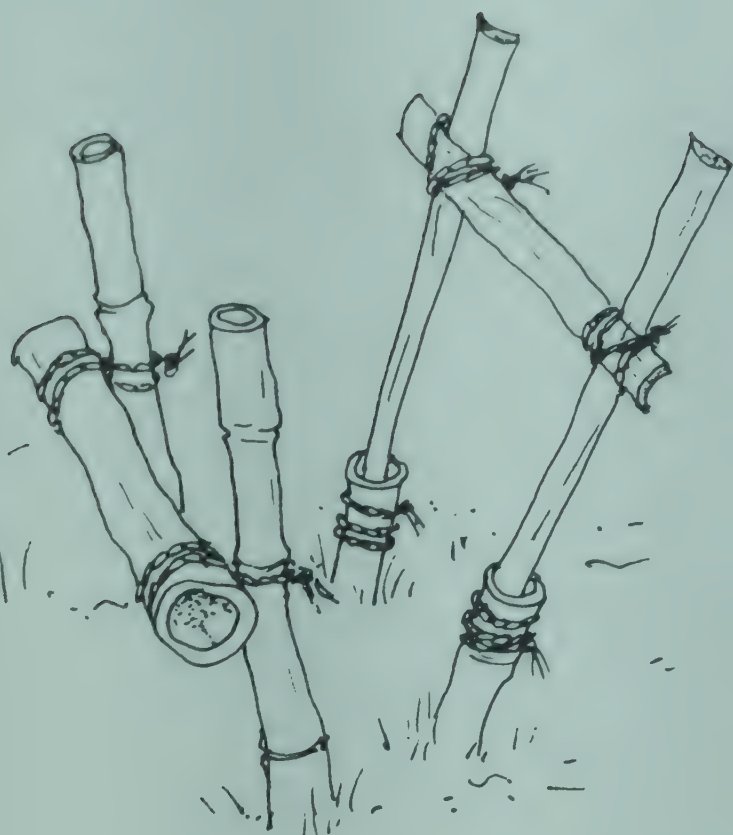


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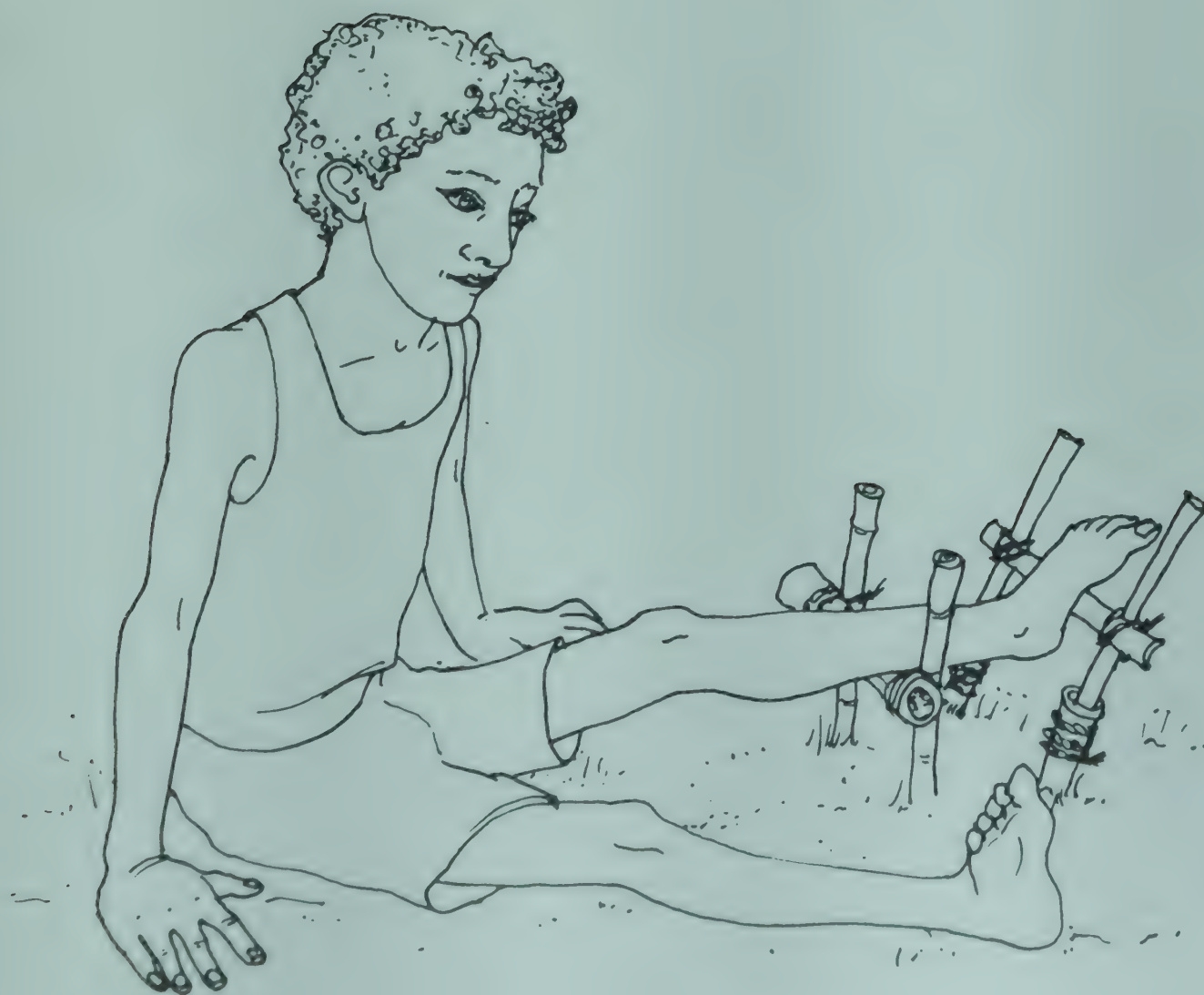


FOOT EXERCISER





FOOT EXERCISER



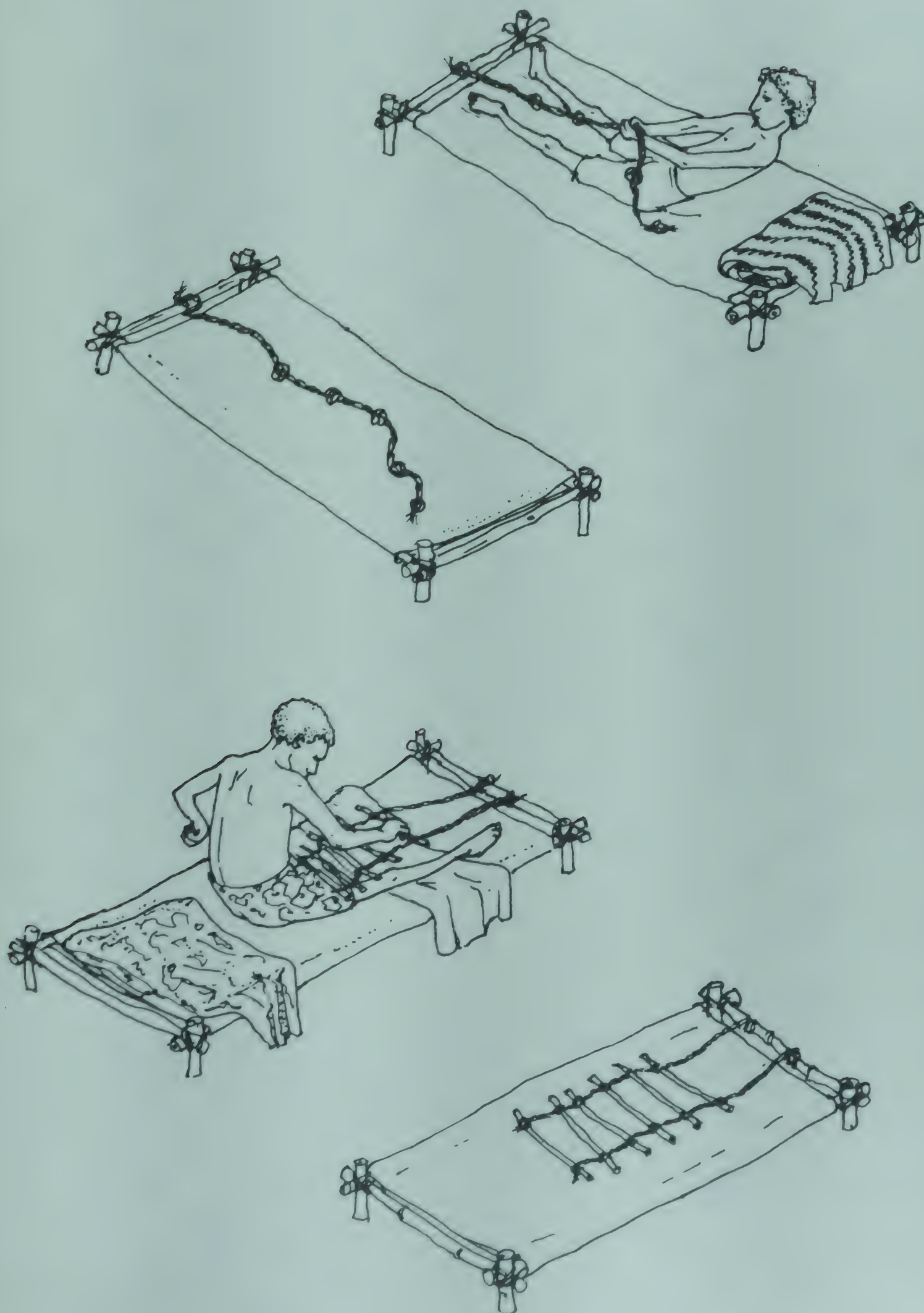
BODY RAISING EXERCISER



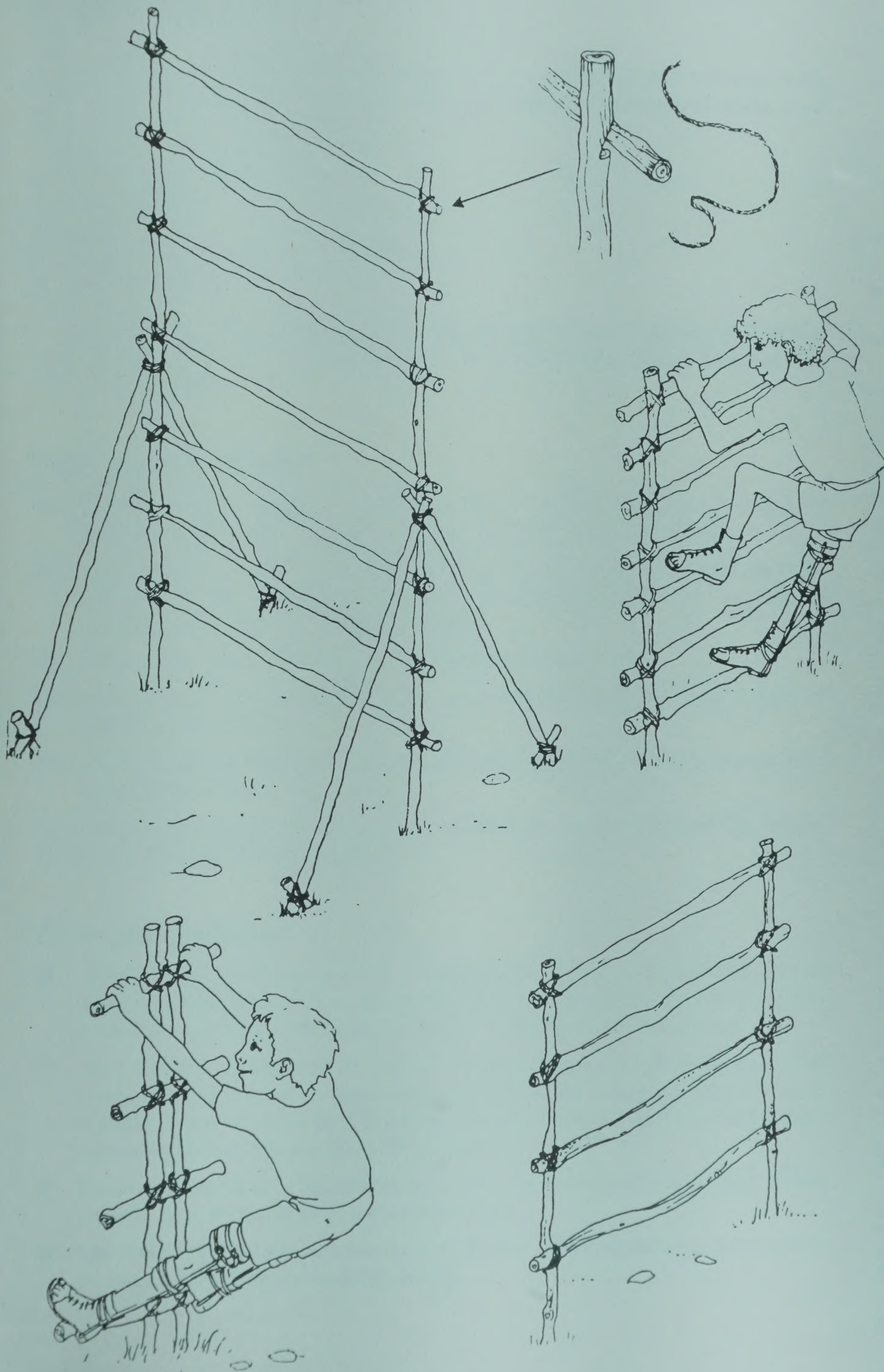
BODY RAISING EXERCISER



BODY RAISING EXERCISER



CLIMBING FRAME



The Appropriate Health Resources and Technologies Action Group Ltd.

AHRTAG is concerned with the development of equipment and techniques for health care at community level. It also provides an information service on appropriate technology for health.

Special areas of interest include:

- the cold chain
- dental health
- disability prevention and rehabilitation
- diarrhoeal diseases

Since it began in 1977, AHRTAG has been in touch with overseas groups with similar interests and is part of an informal world network linking people interested in primary health care.

Other publications:

- 'Playing together' (1981) — aids for disabled children — a set of 8 'pop-up' illustrations plus instruction sheet. (Don Caston & Joan Thompson)
- 'Low cost aids' (1982) — a book showing a wide range of aids for disabled children. The text has been kept to a minimum and there are 53 pages of drawings. (Don Caston & Joan Thompson)
- 'How to look after a refrigerator' by Jonathan Elford, 1980.
- 'Auxiliaries in primary health care — an annotated bibliography' edited by Katherine Elliott, 1979.
- 'Assisting dental education and dental public health in developing countries: a symposium', 1981.

For details of prices and postage write to AHRTAG, 85 Marylebone High Street, London W1M 3DE, United Kingdom.

Free publications:

- 'How to make hand grips' (1981) — a poster showing ways in which clay, plaster and epoxy resin putty can be used to make hand grips to allow disabled people to hold tools, spoons and brushes, etc. (Don Caston & Joan Thompson)
- 'How to make an illuminator' (1982) — simple design for an illuminator which can be used with an oil or candle lamp, battery power, mains electricity or even sunlight. Light behind a drawing makes it easier to see and holds everybody's attention. (Don Caston & Joan Thompson)
- Diarrhoea Dialogue — a quarterly newsletter on all aspects of diarrhoeal disease control. Also available in French and Spanish.
- The AHRTAG baby length measurer (1982) — a working drawing showing how to make a baby length measuring device.



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